HRP associates. Inc.







March 16, 2001

FEDERAL EXPRESS

Ms. Carolyn Casey **Environmental Engineer** Office of Site Remediation and Restoration U.S. Environmental Protection Agency **New England Region** 1 Congress Street, Suite 1100 (HBT) Boston, MA 02114-2023

RCRA RECORDS CENTER FACILITY MAC DERMIN CTD0011645 OTHER RDMS# 100825



RDMS DocID

RE: RCRA CORRECTIVE ACTION STABILIZATION REPORT, MacDERMID, INC., 526 HUNTINGDON AVENUE, WATERBURY, CONNECTICUT (HRP #MAC0036.CA)

Dear Ms. Casey:

Enclosed for your review and comment is the report entitled, "RCRA Corrective Action Stabilization Report" dated March 16, 2001. As discussed during our January 26, 2001 meeting, this report includes the following information for the MacDermid, Inc. facility located at 526 Huntington Avenue in Waterbury, Connecticut:

- Description of site operations, site information, and site setting;
- Descriptions of each identified AOC;
- Summary of all known environmental data for each AOC including the February 2001 groundwater sampling event;
- Summary of human exposure pathways to potentially contaminated media;
- Summary of human receptors which are potentially exposed to contaminated media;
- Preliminary determination of the horizontal extent of contaminated groundwater:
- Summary of environmental data gaps; and
- Well Receptor Survey (see Appendix D).

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Ms. Carolyn Casey Page 2 March 16, 2001

If you have any questions prior to our March 23, 2001 meeting at MacDermid, Inc.'s Huntingdon Avenue facility, please feel free to contact HRP at (860) 793-6899.

Sincerely,

HRP ASSOCIATES, INC.

Richard D. McFee, P.E.

Associate Vice President, Engineering

cc: Greg Strong, MacDermid, Inc. Mary Anne Tillona, MacDermid, Inc.

Joseph Wellington, Carmody & Torrance, LLP

RCRA CORRECTIVE ACTION STABILIZATION REPORT

MacDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CT 06702

EPA I.D. NO. CTD001164599

HRP #MAC0036.CA

March 15, 2001

Prepared by:

Richard D. McFee, P.E. Associate Vice President Engineering Services

Submitted to:

Mr. Greg Strong MacDermid, Inc. 245 Freight Street Waterbury, CT 06702 Submitted by:

HRP Associates, Inc. Engineering & Geology 167 New Britain Avenue Plainville, CT 06062

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HRP

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HRP

Associates, Inc.

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LIST OF ACRONYMS

AOC = Area of Concern

B = Boring

COC = Constituent of Concern

CT-DEP = Connecticut Department of Environmental Protection

CT-RSR = Connecticut Remedial Standard Regulation

DEC = Direct Exposure Criteria

DEP = Department of Environmental Protection

EPA-NE = Environmental Protection Agency of New England

EPA = Environmental Protection Agency

FRP = Fiber-Reinforced Plastic

GWPC = Groundwater Protection Criteria

HRO = High Range Organics

IPC = Industrial Pollution Control

MOH = Metal Hydroxide

MSDS = Material Safety Data Sheets

MW = Monitoring Well

PCBs = Polychlorinated Biphenyls

PMC = Pollutant Mobility Criteria

RCRA = Resource Conservation and Recovery Act

RCSA = Regulations of Connecticut State Agencies

RFA = RCRA Facility Assessment

SPLP = Synthetic Precipitation Leaching Procedure

SWPC = Surface Water Protection Criteria

TCLP = Toxicity Characteristic Leaching Procedure

TP = Test Pit

TRC = TRC Environmental Corporation

UST = Underground Storage Tank

VC = Volatilization Criteria

VOCs = Volatile Organic Compounds

WWTS = Wastewater Treatment System

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1.0 INTRODUCTION

MacDermid, Inc., has a facility located at 526 Huntingdon Avenue in Waterbury, Connecticut (see Figure 1), which is the subject of this report. This facility is currently regulated under the Resource Conservation and Recovery Act (RCRA) as a generator and a treatment storage, and disposal facility (TSDF) of hazardous waste.

Since the Huntingdon Avenue facility has operated as a TSDF, MacDermid, Inc. is subjected to the RCRA Corrective Action Program. The New England office of the Environmental Protection Agency (EPA-NE) has identified MacDermid, Inc.'s Huntingdon Avenue facility as a high priority RCRA Corrective Action TSDF. EPA-NE has set a goal of achieving stabilization or final remedy at each high priority RCRA TSDF in New England by the year 2003.

The EPA-NE considers a facility to be stabilized, if it meets the following two (2) environmental indicators:

- · Human Exposures Controlled; and
- Groundwater Releases Controlled.

A copy of EPA's July 29, 1994 memorandum, which provides final definitions and guidance for the two (2) environmental indicators, is provided in Appendix A.

In efforts to achieve the goal of stabilization by the year 2003, MacDermid, Inc. has initiated a voluntary RCRA Corrective Action program at its Huntingdon Avenue facility. Presented in this report is the following:

- All known Areas of Concern (AOCs);
- Descriptions of each identified AOC;
- Summary of all known environmental data for each AOC including the results of the February 2001 groundwater sampling event;
- Summary of human exposure pathway to potentially contaminated media;
- Summary of human receptors which are potentially exposed to contaminated media;
- Preliminary determination of the horizontal extent of contaminated groundwater at each AOC; and
- Summary of environmental "Data Gaps" for each AOC.

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1.1 Site Operations

The MacDermid, Inc. facility located at 526 Huntingdon Avenue in Waterbury, Connecticut manufactures specialty chemicals for the metal finishing, plating on plastics and printed circuit industries. For the specialty chemical product copper etchant, MacDermid, Inc. has developed a recycling service for their customers and off-site MacDermid facilities.

1.2 Site Information

As shown on Figure 2, the Huntingdon Avenue facility, which is located approximately 11 acres, is comprised of the following interconnected buildings:

- Gear Street Building (approximately 36,000 sq.ft.);
- East Aurora Street Building (approximately 48,000 sq.ft.); and
- Huntingdon Avenue Building (approximately 98,500 sq.ft.).

The Gear Street Building, which is located in the southwestern portion of the site, was occupied by the Waterbury Steel Ball Company from circa 1922 to 1977. Review of the Sanborn Insurance maps (dated 1922, 1950, 1956, 1962, 1968, and 1977) indicate that the Gear Street Building was expanded as follows:

Sanborn Map	Buildings	
1922	The on-site Gear Street building occupied only the Electroless Nickel Area, ≤90 Day Hazardous Waste Storage Area, and Chemical Storage Area (see Figure 2). Occupant was the Waterbury Steel Ball Company.	
1950	Building was expanded to the north and northeast to include the large Chemical Storage Area, the Former Solder Stripper Recycling Area, and the Pilot Plant. Occupant was the Waterbury Steel Ball Company, Inc., a division of Federal Bearing Company	
1956	Same as the 1950 Sanborn map.	
1962	Same as the 1950 Sanborn map.	
1968	Building was expanded to the east to include the lnk Manufacturing Area. The footprint of the on-site building is the same as today. The occupant of the building was the Waterbury Steel Ball Company, Inc., a division of Federal Bearing Company.	
1977	Building is the same as today. The occupant of the building was the Waterbury Steel Ball Company, Inc., a division of Federal Bearing Company.	

The Gear Street Building, which has been occupied by MacDermid since circa 1978, is currently used by MacDermid, Inc. for the manufacturing of inks and electroless nickel plating solutions for the metal finishing and printed circuit board industry, storage of hazardous waste containers for ≤90 days and storage of raw chemicals in containers.

The East Aurora Street Building, which is used primarily for product storage and shipping/receiving, was constructed by MacDermid, Inc. in circa 1985. This building, which lies in the center of the site, is connected to the Gear Street and Huntingdon Avenue Buildings.

The Huntingdon Avenue building, which is located in the northeastern portion of the site, was originally occupied by the Carroll Wire Company. MacDermid, Inc. has occupied this building since circa 1927. Review of the historic Sanborn Insurance maps indicate that the Huntingdon Avenue Building was expanded as follows:

Sanborn Map	Buildings			
1922	The on-site building occupied only an area of approximately 50 feet wide by 100 feet long, which included the front entrance. The garage located to the south is also shown. The occupant of the building was the Carroll Wire Company.			
1950	Building size was the same as the 1922 Sanborn map. The occupant of the building was MacDermid, Inc.			
1956	Building was expanded to the east to include the QA/QC laboratories and to the west to include the Pilot Plant Department. The occupant of the building was MacDermid, Inc.			
1962	Building size is the same as the 1956 Sanborn map. The occupant of the building was MacDermid, Inc.			
1968	Building was expanded to the south to include the Dry Mix Department and to the west to include the Cooper Etchant Processing Area. The occupant of the building was MacDermid, Inc.			
1977	The building size is the same as the 1968 Sanborn map. The occupant of the building was MacDermid, Inc.			

Other on-site features include the Flammable Material Rack Storage Area located on the northeastern portion of the site, the Soil Disposal Area located on the northern portion of the site (opposite side of Huntingdon Avenue facility), and the Garage located on the eastern portion of the site. Descriptions of the Flammable Material Rack Storage Area and the Soil Disposal Area, which have been identified as AOCs, are provided in Section 2.0. The Garage, which is shown on the 1922 Sanborn map, is used for the storage of only miscellaneous metal parts and equipment (i.e., no hazardous chemicals).

The Huntingdon Avenue Building (see Figure 2) currently houses the following process operations:

- QA/QC laboratory;
- Dry Mix Department;
- Pilot Plant Department;
- Main Mixing Area;
- Copper Etchant Process Area;

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Industrial Batch Wastewater Treatment System;

- Acid Above-Ground Tank Farm;
- Bulk Spent Copper Etchant Storage Area; and
- Bulk Copper Etchant Loading and Unloading Area.

The former industrial wastewater lagoons were located on the western side of the Huntingdon Avenue building.

1.3 Site Setting

MacDermid, Inc., which is located in a mixed industrial/residential/commercial area, is bounded as follows:

North: Huntingdon Avenue; MacDermid owns property to the north of

Huntingdon Avenue

East: Tuttle's Autobody: east of Tuttle Autobody are East Aurora Street.

manufacturing businesses, and Naugatuck River.

South: East Aurora Street; south of East Aurora Street are manufacturing

businesses, and Naugatuck River.

West: Gear Street; west of Gear Street are Huntingdon Place (private

residences), manufacturing businesses, and Steel Brook.

The groundwater beneath the Huntingdon Avenue site and vicinity has been assigned a groundwater quality classification of "GB" by the Connecticut Department of Environmental Protection (CT-DEP), which denotes that groundwater may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Steele Brook, located approximately 0.17 mile southwest of the Huntingdon Avenue site, has been assigned a surface water classification of "B" indicating it is known or presumed to meet Water Quality Criteria which support designated uses, which may include recreational use; fish and wildlife habitat; agricultural and industrial supply and other legitimate uses including navigation. The Naugatuck River, located 0.2 mile east of the Huntingdon Avenue site, has been assigned a surface water classification of "C/B", indicating that, due to point or nonpoint sources of pollution, certain Water Quality Criteria or one or more designated uses assigned to Class B waters (e.g. fish and wildlife habitat) are not currently met. The water quality goal is achievement of Class B Criteria and attainment of Class B designated uses.

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2.0 AOC DESCRIPTIONS

On May 5, 1993, TRC Environmental Corporation (TRC), a contractor for the U.S. Environmental Protection Agency (EPA), performed a RCRA Facility Assessment (RFA) of MacDermid, Inc.'s Huntingdon Avenue facility. Based on the results of this assessment, TRC identified the nineteen (19) Areas of Concern (AOCs) listed below in the report entitled "Final RCRA Facility Assessment (RFA), MacDermid, Incorporated, Waterbury, Connecticut", and dated September 24, 1993. A copy of the TRC report is provided in Appendix B.

- Soil Disposal Area
- Former Waste Lagoons
- Ink Spill Area
- Underground Storage Tanks (2)
- Transformer Vault
- WWTS
- Dry Chemical Silos (4)
- East Aurora Street Warehouse
- Pilot Plant (including QA/QC Labs and Small Packaging Area
- Main Mixing Area

- Satellite Storage Areas (4)
- Flammable Rack Storage Area
- Chemical Storage Area: Gear St. Building
- Bulk Waste UnLoading and Storage Area
- Copper Etchant Processing Area
- Ink Manufacturing Area
- Former Solder Stripper Reclaim Area
- Electroless-Nickel Area
- Acid Tank Farm

In addition to the nineteen (19) AOCs listed above, MacDermid, Inc. has identified the following four (4) additional AOCs:

- 1994 Copper Etchant Spill;
- 2000 Gear Street Industrial Wastewater Sump Release;
- Former 6,000 gallon #2 Fuel Oil UST (East Aurora Street Building); and
- 4,000 gallon #2 Fuel Oil UST (Gear Street Building).

In an effort to facilitate the process of determining when the goal of stabilization has been achieved for the two environmental indicators (i.e. Human Exposure and Groundwater Control), MacDermid has elected at this time to combine or cluster some of the AOCs listed above into one AOC. The reasons for clustering or not clustering the AOCs are presented in Table 1. The AOCs listed in Table 1 have also been assigned letter designations (e.g. AOC-A), or letter and number designations (e.g., AOC-E1) to minimize any confusion associated with TRC's 1993 AOC numbering system (see Table 1).

Presented in subsections 2.1 through 2.12 are descriptions of each AOC.

In addition to clustering the AOCs, the groundwater monitoring wells, which were installed by a different organization, have been renumbered MW-101 through MW-113 for uniformity. Listed below are the monitoring wells new and former designations:

New Designation	Former Designation
MW-101	MAC-6
MW-102	MAC-5
MW-103	GZ-2
MW-104	MAC-7
MW-105	GZ-7
MW-106	MAC-4
MW-107	MAC-3
MW-108	GZ-9
MW-109	GZ-8
MW-110	MAC-1
MW-111	GZ-6
MW-112	GZ-3
MW-113	GZ-5

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2.1 AOC Letter: AOC-A

AOC Name:

Soil Disposal Area

AOC Description:

AOC-A is the area used by MacDermid, Inc. in 1978/1979, which was reportedly used for the disposal of approximately 1,000 cubic yards of metal hydroxide sludge and potentially contaminated soil excavated from MacDermid's waste lagoons (AOC-E1). This disposal area, which measures approximately 50 feet wide by 95 feet long (TRC, 1993), is located approximately 400 feet north of the Huntingdon Avenue facility (opposite side of Huntingdon Avenue, see Figure 2). This disposal area was covered with an asphalt cap in 1986. The asphalt cap was reported to be worn on the edges and cracked in several locations (TRC, 1993).

The material removed from AOC-E1 was reportedly (IPC, 1986) mixed with sand and gravel to increase its load bearing characteristics. Following its placement in AOC-A in 1978/1979, it was covered with clean fill. The existing layer of clean fill (depth varies) was covered with nine (9) inches of processed aggregate and three (3) inches of bituminous concrete (i.e. asphalt) in 1986 (IPC, 1986).

MacDermid personnel reported to GZA GeoEnvironmental, Inc. of Vernon, Connecticut (GZA, 1995) that the TRC report (TRC, 1993) was incorrect. The metal hydroxide sludge from AOC-E1 was not disposed of in AOC-A, but was disposed of off-site. AOC-A was reportedly used only to receive potentially contaminated soil from AOC-E1.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC. This area, however, was used to receive at least potentially contaminated soil from AOC-E1 (see Potential Releases).

Potential Releases:

Presented in Table 2 are the EP toxicity sampling results for metal hydroxide sludge composites prepared by MacDermid, Inc. in 1981 and the material excavated from AOC-E1 in 1986 by MacDermid personnel. As indicated in Table 2, the material excavated from AOC-E1 (samples numbers 1 and 2) in 1986 exhibited only low EP toxicity leachate concentrations for silver. The metal hydroxide drum composites prepared in 1981 exhibited low EP toxicity leachate concentrations for cadmium and chromium.

In April 1986, the Industrial Pollution Control (IPC) Corporation of Westport, Connecticut, installed two (2) groundwater monitoring wells in the area of AOC-A. Monitoring well MW-101- (formerly known as MAC-6)-(see Figure 2) was installed at the apparent upgradient edge of AOC-A. Monitoring well MW-102 (formerly known as MAC-5) was installed at the apparent downgradient edge of AOC-A (see Figure 2). groundwater.

2.1 AOC Letter: AOC-A (continued)

Potential Releases

Monitoring well MW-101 is a bedrock well. As indicated in the boring log (see Appendix C), bedrock was encountered at a depth of 3.5 feet below grade. This two (2) inch diameter PVC well was set at a depth of 36 feet below grade with 10 feet of screen. Monitoring well MW-102, which is located approximately 230 feet south of MW-101, is a 2-inch diameter PVC overburden monitoring well. At this location, refusal was encountered at a depth of 31.75 feet below grade. Monitoring well MW-102 was set at a depth of 31.75 feet with 10 feet of screen. Monitoring wells MW-101 and MW-102 are equipped with two (2) foot high standpipes and locking caps. Groundwater level at MW-102 is approximately 25 feet below grade.

Monitoring wells MW-101 and MW-102, which are known to have been sampled on three separate events, have exhibited low concentrations of arsenic, barium, copper, silver, zinc, fluoride, cyanide (total), and acetone. Groundwater data is discussed under "Human Exposure" and "Groundwater Control" descriptions.

Human Exposure:

The known investigations performed to date in the area of AOC-A are as follows:

- Analysis of excavated material in 1986;
- Installation of monitoring wells MW-101 and MW-102 in April 1986; and
- Sample and analysis of groundwater monitoring wells MW-101 and MW-102 in April 1986, March 1995, and February 2001.

The EP toxicity sampling results for materials potentially stored in AOC-A are presented in Table 2. Included in Table 2 are the Connecticut Remedial Standard Regulation (CT-RSR) standards for Direct Exposure Criteria (DEC) and Pollutant Mobility Criteria (PMC). Although the PMC standards are for metals analyzed by the toxicity characteristic leaching procedure (TCLP) or the synthetic precipitation leaching procedure (SPLP), the PMC standards have been provided for comparison purposes only. As indicated in Table 2, no PMC standards were exceeded. Descriptions of the DEC and PMC standards are provided in Appendix D.

A summary of the known groundwater sampling results for MW-101 and MW-102 is provided in Table 3. Included in Table 3 are the following applicable CT-RSR standards:

- Surface Water Protection Criteria (SWPC); and
- Volatilization Criteria (VC).

Because the MacDermid facility is located in a GB groundwater classification area and no groundwater drinking supply sources are known to be located in the immediate area, the Groundwater Protection Criteria (GWPC) does not apply (see Section 22a-133k-3(d) of the Regulations of the State Agencies [RCSA]).

Descriptions of the SWPC and VC standards are provided in Appendix D. Provided in Appendices E and F are the 1995 and 2001 groundwater laboratory reports, respectively.

Based on the data presented in Tables 2 and 3, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-A are as follows:

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2.1 AOC Letter: AOC-A (continued)

Human Exposure (continued)

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply. Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Χ		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)	_		X	This AOC is reported to be covered with the following materials: Clean fill (varying depths); Processed aggregate (9 inches); and Bituminous concrete (3 inches).
			•	The current condition of the bituminous concrete was reported in 1993 to be worn on the edges and cracked in several locations. The current condition of bituminous concrete (covered with snow) is not known at this time.
Surface Water			Х	Monitoring well MW-101 slightly exceeded the SWPC standard for arsenic in February 2001 (see Table 3). As indicated in Table 3, monitoring well MW-102 has exhibited concentrations of copper and total cyanide above the SWPC standards in March 1995. No SWPC standard exceedances were detected in MW-102 in February 2001.
Sediment		Χ		Not applicable.
Subsurface Soil (>2 ft)			X	The 1981 and 1986 sampling results presented in Table 2 indicated EP toxicity concentrations of cadmium, chromium, and silver below the GB-PMC standards. The GB-PMC standards for metals, however, are based on SPLP, TCLP or mass analysis (i.e. not EP toxicity). In addition, the available testing results are limited to the 8 RCRA metals (i.e. no data for non-RCRA metals such as copper, nickel and zinc, or volatile organic compounds (VOCs).
Air (outdoors)		Х		Not applicable.

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

2.1 AOC Letter: AOC-A (continued)

Human Exposure (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Residents Trespassers Workers Construction	This AOC-A is located in a non-secure area, north of the Huntingdon Avenue facility. It is unknown at this time if all of the potentially contaminated material is covered with a cover of at least two (2) feet and/or an impermeable cover. No recreational activities are performed in this area. Area is overgrown and not used by the public or owner for any activities.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 2,000 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Construction	If excavation operations are performed in the area of AOC-A, construction workers could be exposed to potentially contaminated soil.
Sediment	Residents Recreation	Not applicable.

Groundwater Control

A summary of the groundwater monitoring data for AOC-A is presented in Table 3. As indicated in Table 3, the CT RSR's SWPC standards for copper and cyanide (total) were exceeded in monitoring well MW-102 in March 1995. No SWPC exceedances were detected in monitoring well MW-102 in February 2001. In February 2001, monitoring well MW-101 slightly exceeded the SWPC standard for arsenic only.

Based on the groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River (see Figure 3). The depth to groundwater in monitoring well MW-102 is approximately 25 feet below grade. The depth to bedrock in the area of AOC-A ranges from 3.5 to 32 feet (see Appendix C).

The horizontal and vertical dimensions of the contaminated groundwater in the area of AOC-A have not been defined at this time. The nearest on-site monitoring well MW-103 (formerly known as GZ-2) does not appear to be located downgradient of AOC-A.

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¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

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2.1 AOC Letter: AOC-A (continued)

Data Gaps

- Condition of the asphalt cap.
- Total depth of cover (clean fill, processed aggregate and asphalt).
- Type of material stored in the AOC-A (sludge and/or contaminated soil).
- Mass and SPLP metals concentrations in stored material, if any.
- Concentration of VOCs in stored materials.
- Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions.

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2.2 AOC Letter: AOC-B

AOC Name:

Underground Storage Tank

AOC Description:

This AOC is comprised of one (1) underground storage tank (UST) located on the northern side of the Huntington Avenue building (see Figure 2). The 10,000-gallon UST, which was reported by TRC (see Appendix B) to be located on the northeastern side of Huntingdon Avenue building, did not exist according to MacDermid's UST Facility Notification Form (see Appendix H).

The additional USTs known to have been located or still in use at this facility, have been identified as AOC-F and AOC-J (see Sections 2.6 and 2.10).

The UST located at this AOC was originally installed in 1959 and was replaced in September 1998. This steel tank is cathodically protected and the cathodic protection system is tested on an annual basis to ensure the required negative voltage between the UST and the copper sulfate electrode is being maintained. This UST is used to store #2 fuel oil.

Known Releases:

No documented releases to the surrounding environment are known to exist for this

AOC.

Potential Releases:

Releases from the tank in this AOC may potentially occur if the structural integrity of the UST has been impacted or during filling operations. As shown on Figure 2, monitoring well MW-103 appears to be located downgradient of AOC-B. No petroleum hydrocarbon sheen or organic compounds typically contained in petroleum products were observed in MW-103 during the February 2001 sampling event. Soil and groundwater data for MW-103 are presented in Tables 4 and 5, respectively, and discussed under "Human Exposure" and "Groundwater Control" descriptions.

Human Exposure:

The known investigations performed to date in the area of AOC-B are as follows:

- GZA's Soil and Groundwater Investigations (1995); and
- HRP's Groundwater Sampling Event (2001).

On January 12, 1995 (see Appendix C), GZA installed monitoring well MW-103 (formerly known as GZ-2). Upon installation of this well, the soil sample collected from the 10-12 foot horizon was submitted for analysis of TCLP extractable metals² and VOCs by EPA Method 8260.

²Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

2.2 AOC Letter: AOC-B (continued)

A summary of the 1995 GZA soil sampling results is provided in Table 4. Included in Table 4 are the applicable CT RSR's DEC and PMC standards. As indicated in Table 4, no PMC standards were exceeded. Descriptions of the DEC and PMC standards are provided in Appendix D. Provided in Appendix I are the laboratory reports for the GZA soil samples.

In March 1995 and February 2001, groundwater samples were collected from MW-103 and analyzed for dissolved metals², total and amenable cyanide, fluoride and VOCs by EPA Method 8260.

A summary of the groundwater results for MW-103 are presented in Table 5. Included in Table 5 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). No SWPC or VC standards were exceeded in MW-103 in February 2001 (see Table 5). Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Based on the data presented in Tables 4 and 5, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-B are as follows:

	Contaminated Media				
Pathway	Yes	No	Unknown	Rationale	
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Groundwater Receptor Survey completed by HRP.	
Air (indoors)		Χ		This AOC is located outdoors, therefore this pathway is not applicable.	
Surface Soil (<2 ft)			X	The 10,000-gallon heating oil UST appears to be located beneath a concrete cap. The current conditions of this concrete cap (covered with snow) is not known at this time. The area immediately surrounding the concrete cap is grass. No subsurface investigations have been performed in the immediate area of this UST.	
Surface Water			X	No SWPC or VC standards were exceeded in MW-103 during February 2001 (see Table 5). However, since groundwater monitoring is currently limited to one (1) downgradient overburden well, the impact to the underlying groundwater (if any) is not known at this time.	
Sediment		Χ		Not applicable.	
Subsurface Soil (>2 ft)			Х	No subsurface investigations of greater than 2 feet have been performed in the area immediately surrounding the UST. Monitoring well MW-103 is located approximately 130 feet south of the 10,000-gallon UST. Therefore, the soil sample collected and analyzed by GZA from the 10'-12' soil horizon of MW-103 in 1995, is not representative of this UST's subsurface soils.	
Air (outdoors)		Х		This AOC is used to store only #2 fuel oil, therefore this pathway is not applicable.	

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Rev. No. 0

2.2 AOC Letter: AOC-B (continued)

Human Exposure (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Residents Trespassers Workers Construction	AOC-B is located in a non-secure area, north of the Huntingdon Avenue building. The area directly above the UST is covered with a concrete cap. If soil excavations are performed in the area of this AOC, the listed human receptors could be exposed to potentially contaminated soil. No recreational activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-B, on-site workers and construction workers could be exposed to potentially contaminated soil (if it exists).
Sediment	Residents Recreation	Not Applicable

Groundwater Control)

Monitoring well MW-103 appears to be located hydraulically downgradient of AOC-B. As indicated in Table 5, no metals, cyanide or VOC CT-RSR exceedances were detected in this shallow overburden monitoring well in February 2001.

Since no monitoring well is located upgradient of this AOC and groundwater sampling results are limited to one (1) shallow overburden monitoring well, the horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-B have not been defined at this time.

Data Gaps:

- Condition of the concrete cap.
- Condition of the soil surrounding the UST.
- Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.3 AOC Letter: AOC-C

AOC Name:

Dry Chemical Silos

AOC Description:

This AOC, which is located on the northeastern side of the Huntingdon Avenue building, consists of four (4) upright 10,000-gallon steel silos. These silos, which are totally enclosed (i.e., top, sides, and bottom), were formerly used for the storage of dry sodium carbonate (two types, light and dense), sodium metasilicate, and sodium hydroxide. The silos, which are currently empty, are located on a raised concrete

pad.

Known Releases:

No documented releases to the surrounding environment are known to have oc-

curred from this AOC.

Potential Releases:

Releases to the environment may have potentially occurred during the loading and

unloading of the silos.

Human Exposure:

No known investigations have been performed to date in the area of AOC-C. Listed below are the environmental media (i.e., groundwater, soil, etc.) reasonably suspected to be "contaminated" above appropriate protective risk-based standards in the area of AOC-C.

	Contaminated Media				
Pathway	Yes	No	Unknown	Rationale	
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.	
Air (indoors)		X		This AOC is located outdoors, therefore this pathway is not applicable.	
Surface Soil (<2 ft)			Х	The silos are located on a raised concrete pad. The area surrounding this AOC is primarily covered with an asphalt cap and is sloped towards East Aurora Street. However, no subsurface investigations have been performed in this area.	
Surface Water			Х	No groundwater monitoring wells are located downgradient of this AOC.	
Sediment		Х		Not applicable.	
Subsurface Soil (>2 ft)			Х	The area surrounding AOC-C is primarily covered with an asphalt cap and is sloped towards East aurora Street. No subsurface investigations have been performed in this area.	
Air (outdoors)		Х		The dry chemical silos are empty, therefore, this pathway is not applicable. Copies of the Materials Safety Data Sheets (MSDSs) for the chemicals formerly stored in the silos are provided in Appendix J. As indicated in the attached MSDSs, the primary health hazards posed by these chemicals are reported to be irritation to the skin, eyes, and respiratory tract.	

2.3 AOC Letter: AOC-C (continued)

Human Exposure (continued)

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. suspected to be above appropriate risk-based standards).

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Residents Trespassers Workers Construction	AOC-C is not located in a secure area. However, the area surrounding the silos is covered primarily with an asphalt cap. Therefore, exposure to potentially contaminated soil would only occur if excavation activities are performed in this area. No recreational activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-C, on-site workers and construction workers could be exposed to potentially contaminated soil.

Groundwater Control:

As shown on Figure 3, no monitoring well appears to be located hydraulically downgradient of AOC-C. Therefore, the horizontal and vertical dimensions of potentially contaminated groundwater in the AOC-C (if any) have not been defined at this time. Monitoring well MW-103, which appears to be located hydraulically upgradient of AOC-C, exhibited no metal, cyanide, or VOC concentrations above applicable CT-RSR standards in February 2001 (see Table 5).

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions.

HRP

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.4 AOC Letter: AOC-D

AOC Name:

AOC-D1 - Pilot Plant (including QA/QC labs and small packaging area)

AOC Description:

AOC-D1 is located in the northeastern end of the Huntingdon Avenue building. This AOC consists of the Pilot Plant, the QA/QC labs, the small packaging area, and a satellite hazardous waste container storage area. Within the Pilot Plant, small batches of sample products are produced for MacDermid's customers. The aboveground process tanks located within the Pilot plant range from 5 gallons to 750 gallons in size. The types of chemicals which have been managed within this AOC include: copper etchant, solder stripper, inks, electroless nickel plating solution, dry batch chemicals and components of these materials (TRC, 1993).

Located within the satellite storage area is a single 55-gallon drum which is used to temporarily store the hazardous wastes generated within this AOC. When the 55-gallon drum is full, it is transferred to MacDermid's <90 day hazardous waste container storage area located within the Gear Street building.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To prevent releases to the environment, the Pilot Room is constructed with a concrete floor which is sloped towards a collection sump. Material within the collection sump can either be containerized or discharged to MacDermid's industrial wastewater treatment system (WWTS). Spills or releases within the QA/QC lab and the small packaging area would be contained by the area's concrete floor and building walls.

As indicated on Figure 3, monitoring wells MW-104 (formerly known as MAC-7) and MW-105 (formerly known as GZ-7) appear to be located downgradient of AOC-D1. Soil and groundwater data for monitoring wells MW-104 and MW-105 are presented in Tables 6 and 7, respectively, and discussed under "Human Exposure" and "Groundwater Control" descriptions. As indicated in Tables 6 and 7, no metal, cyanide, or VOC CT-RSR exceedances were detected in the 1995 soil sample or in the February 2001 groundwater monitoring results.

Rev. No. 0

2.4 AOC Letter: AOC-D (continued)

AOC Name:

AOC-D2 - Main Mixing Area

AOC Description:

The main mixing area, located in the center of the Huntingdon Avenue building, was formerly used to blend copper plating solution. This AOC is currently used to repackage dry chemicals into small units for off-site sale.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To prevent releases to the environment, this AOC is equipped with a dust collector, epoxy-coated concrete floor and floor trenches. The floor trenches are connected to MacDermid's WWTS (i.e. AOC-E2).

As indicated on Figure 3, monitoring wells MW-104 and MW-105 appear to be located downgradient of AOC-D2. Soil and groundwater data for monitoring wells MW-104 and MW-105 are presented in Tables 6 and 7, respectively, and discussed under "Human Exposure" and Groundwater Control" descriptions. As indicated in Tables 6 and 7, no metal, cyanide, or VOC CT-RSR exceedances were detected in the 1995 soil sample or in the February 2001 groundwater monitoring results.

Human Exposure:

The known investigations performed to date in the area of AOC-D1 and AOC-D2 are as follows:

- IPC Corporation Groundwater Investigation (estimated to be 1988);
- GZA's Soil and Groundwater Investigations (1995); and
- HRP's Groundwater Sampling Event (2001).

Monitoring well MW-104 was installed by the IPC Corporation. No boring log or well completion report nor IPC groundwater monitoring data could be located for this monitoring well (MW-104).

On February 15, 1995, GZA installed monitoring well MW-105 (see Appendix C). During installation of this monitoring well the soil sample collected from the 15-17 foot horizon was submitted for analysis of TCLP extractable metals² and VOCs by EPA Method 8260.

A summary of the 1995 GZA soil sampling results is provided in Table 6. Included in Table 6 are the applicable CT-RSR's DEC and PMC standards (see Appendix D). No CT-RSR PMC standard was exceeded in monitoring well MW-105's 1995 soil sample. Provided in Appendix I are the laboratory reports for the GZA 1995 soil samples.

In March 1995, groundwater samples were collected by GZA from MW-104 and MW-105 and analyzed for dissolved metals², total and amenable cyanide, fluoride and VOCs by EPA method 8260. In February 2001, HRP collected groundwater samples from MW-105 only for analysis of the March 1995 parameters. No CT-RSR SWPC or VC standards were exceeded in monitoring well MW-105 in February 2001.

Monitoring well MW-104 could not be sampled in February 2001 due to obstruction encountered at a depth of approximately 25 feet. This obstruction is suspected to be siltation.

²Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

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2.4 AOC Letter: AOC-D (continued)

Human Exposure:

A summary of the groundwater results for MW-104 and MW-105 are presented in Table 7. Included in Table 7 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). No CT-RSR SWPC or VC standards were exceeded in MW-105 during the February 2001 groundwater sampling event. Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Based on the data presented in Tables 6 and 7, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above theapplicable protective risk-based standards in the area of AOC-D are as follows:

Contaminated Media				
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Χ		The concentrations of VOCs detected in the current groundwater monitoring system (see Tables 2-17) are significantly below the CT-RSR's SWPC and VC standards.
Surface Soil (<2 ft)			Х	The subsurface soil is covered with either concrete or epoxy-coated concrete floor. However, no subsurface investigations have been performed in this AOC.
Surface Water			X	No SWPC or VC standards were exceeded in MW-105 during the February 2001 groundwater sampling event (see Table 7). However, since groundwater monitoring is currently limited to one (1) downgradient overburden well, the extent of the impact to the underlying groundwater (if any) is not known at this time.
Sediment		X		Not applicable.
Subsurface Soil (>2 ft)			X	The subsurface soil is covered with either concrete or epoxy-coated concrete floor. However, no subsurface investigations have been performed in this AOC.
Air (outdoors)		Х		This AOC is located inside the Huntingdon Avenue building, therefore this pathway is not applicable.

Summarized below are the human receptors, which might be reasonably expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

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2.4 AOC Letter: AOC-D (continued)

Human Exposure:

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil	Workers	AOC-D is located in a secure area (inside the Huntingdon Avenue
(<2 ft)	Construction	building). If excavation operations are performed in this area (i.e. below concrete floor), on-site workers and construction workers could be exposed to potentially contaminated soil. No recreational activities are performed in this area.
Surface	Residents	The groundwater flow direction (see Figure 3) appears to be south-
Water	Recreation	southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-D, on-site workers and construction workers could be exposed to potentially contaminated soil.

Groundwater Control:

Based on groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River. The overburden groundwater monitoring wells MW-104 and MW-105 appear to be located hydraulically downgradient of AOC-D. Due to the obstruction detected in MW-104, only MW-105 was sampled and analyzed in February 2001.

As indicated in Table 7, no CT-RSR's SWPC or VC standards were exceeded in monitoring well MW-105 in February 2001.

The horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-D have not been determined at this time with the existing groundwater monitoring system.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions in AOC-D.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.5 AOC Letter: AOC-E

AOC Name:

AOC-E1 - Former Waste Lagoons

AOC Description:

AOC-E1 is comprised of two (2) lagoons, which were used from circa 1930 to 1978, as the discharge areas for organic and inorganic process waste (TRC, 1993). As shown on Figure 2, the two lagoons were located on the western side of the Huntingdon Avenue building. Review of the 1975 aerial photograph, which was obtained from the Connecticut Department of Natural Resources, indicates that one of the former lagoons was located beneath what is currently the Bulk Waste Loading and Storage Area and the Acid Tank Farm. The approximate dimensions of this lagoon were 190 feet by 60 feet. Review of the 1980 aerial photograph, indicates that the second lagoon was located west of the 1975 lagoon area. The approximate dimensions of the 1980 lagoon were 120 feet by 40 feet. The lagoons are not visible in the 1986, 1990, or 1994 aerial photographs.

In 1979, the sludges from both lagoons were reportedly excavated and disposed of off-site (GZA, 1995). The soils underlying the lagoons were excavated and placed in AOC-A.

Within these earthen lagoons (i.e. no liners), the solids settled to the bottom and the liquid was decanted and discharged to the municipal sewer systems.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC. Since these unlined lagoons were used to receive industrial wastewaters, it is anticipated that there have been releases to the site's soil and groundwater (see Potential Releases).

Potential Releases:

In January/February 1995, GZA installed a total of five (5) borings within the estimated footprints of the two (2) former waste lagoons. The locations of these borings B-2, B-3, B-4, MW-108, and MW-109 (formerly known as GZ-11, GZ-10, GZ-4, GZ-9, and GZ-8, respectively) are shown on Figure 2. MW-108 (formerly GZ-9) and MW-109 (formerly GZ-8) are overburden groundwater monitoring wells. Copies of the boring logs are provided in Appendix C.

Based on the results of GZA's 1995 soil/groundwater investigation and HRP's February 2001 groundwater sampling event, it appears that a release may have occurred from AOC-E1. As indicated in Table 8, soil samples from B-2 and MW-108, exhibited metal concentrations (chromium, lead and/or nickel) above CT-RSR's PMC standards. The groundwater (see Table 9) also exhibited concentrations of metals (e.g., copper, nickel, and zinc) and cyanide above the CT-RSR's SWPC standards.

A summary of all test results performed in this area are presented under the "Human Exposure" and "Groundwater Control" descriptions.

Rev. No. 0

2.5 AOC Letter: AOC-E (continued)

AOC Name:

AOC-E2 - Wastewater Treatment System

AOC Description:

The Wastewater Treatment System (WWTS), as shown on Figure 2, is located on the southwestern side of the Huntingdon Avenue building. The WWTS presently consists of eight (8) 15,000-gallon batch treatment tanks, four (4) 15,000-gallon collection tanks, two (2) 3,000-gallon metal hydroxide (MOH) slurry tanks, a 4,000-gallon recirculation tank, an ultrafiltration unit, a 15-cubic foot filter press, and a 26-cubic yard MOH sludge roll-off container. The WWTS is used to treat wash waters and spills generated primarily from copper etchant process area, main mixing area, pilot plant department, dry mix department, bulk waste loading and storage area and ink manufacturing area. The original WWTS, which did not contain the MOH slurry tanks, filter press, the MOH roll-off and ultrafiltration system, was installed in 1978. The MOH filter press and roll-off was added in 1980 (TRC, 1993). The ultrafiltration system was installed in 1992.

The wash waters/spills are treated for the removal of the following pollutants: ammonia, chromium (hexavalent), chromium (total), copper, cyanide (amenable), cyanide (total), fluoride, iron, nickel, tin, zinc, and pH. The treated effluent is discharged to the city of Waterbury's sewage treatment facility pursuant to a State wastewater discharge permit.

The WWTS tanks are constructed of either steel, concrete, or fiber-reinforced plastic (FRP). The tanks are located on a concrete floor and are surrounded by a concrete berm.

The batch treatment tanks are also connected to a wet scrubber system, which removes ammonia vapors.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To prevent releases to the environment, the WWTS is surrounded by a concrete berm and the emissions from the treatment tanks are treated by a wet scrubber.

To minimize the possibility of any releases from AOC-E2 and other AOCs in the area to the stormwater collection system, MacDermid retrofitted catch basins CB-1, CB-2 and CB-3 with watertight manhole covers in 1998. The locations of these catch basins are shown on Figure 2.

As discussed in AOC-E1, groundwater in this area has been impacted (see "Human Exposure" and "Groundwater Control" descriptions). Groundwater (see Table 9) exhibited metal concentrations (e.g., copper nickel, and zinc) and cyanide above the CT-RSR's SWPC standards.

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2.5 AOC Letter: AOC-E (continued)

AOC Name:

AOC-E3 - Bulk Spent Copper Etchant UnLoading and Storage Area

AOC Description:

The Bulk Spent Copper Etchant UnLoading and Storage Area, which is located at the northwestern end of the Huntingdon Avenue building (see Figure 2), is used to manage spent copper etchant. The enclosed 45 foot by 65 foot Bulk Spent Copper Etchant Loading Area is equipped with a concrete floor, which is sloped towards floor trenches. The floor trenches are connected to the WWTS (i.e. AOC-E2).

The Bulk Storage Area for spent copper etchant is located immediately east of the Bulk Spent Copper Etchant Loading Area. Located within the Bulk Storage Area are three (3) 7,500-gallon aboveground FRP storage tanks and one (1) 3,500-gallon aboveground FRP storage tank. The 7,500-gallon storage tanks are used to store spent copper etchant received from MacDermid's customers. The 3,500-gallon tank is currently used to store the process chemical sodium hydroxide. The 3,500-gallon storage tank would be used to store spent copper etchant only if additional bulk storage capacity was needed (i.e. 22,500-gallon capacity is exceeded). The Bulk Storage Area, which measures approximately 55 feet by 17.5 feet is equipped with an epoxy coated concrete floor, 2 feet 7 inches high epoxy coated block-wall (south side), epoxy coated building walls (north, east, and west sides), and two (2) collection sumps. Any material collected within the collection sump (located in the north-eastern corner of the storage area) is pumped to the main collection sump (located in the middle of the storage area). From the main collection sump, the collected material is pumped to the WWTS (i.e. AOC-E2).

The primary hazardous constituents associated with the spent copper etchant are: ammonia, arsenic, chloride, copper, chromium, lead, nickel, tin, and zinc

The start-up date for this AOC is estimated to be 1970.

Known Releases:

A CT DEP inspector noticed on February 10, 1990, that water from a drum washing operation outside the loading area was being allowed to flow into the on-site catch basins. The discharge point for the catch basins is Steele Brook (TRC, 1993). The sediment located directly beneath the catch basins outfall (i.e. into Steele Brook) was excavated in November 1994 in response to a spent copper etchant spill (see AOC-E6 description).

Potential Releases:

Spills or releases within AOC-E3 will be directed to the WWTS (i.e. AOC-E2) by means of sloped concrete floor, concrete berms, building walls, floor trenches, and collection sumps.

As discussed in AOC-E1, groundwater in this area has been impacted (see "Human Exposure" and "Groundwater Control" descriptions). Groundwater (see Table 9) exhibited metal concentrations (e.g., copper nickel, and zinc) and cyanide above the CT-RSR's SWPC standards.

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2.5 AOC Letter: AOC-E (continued)

AOC Name:

AOC-E4 - Spent Copper Etchant Recycling Area

AOC Description:

This AOC, which is located in the western portion of the Huntingdon Avenue building (see Figure 2), houses the spent copper etchant processing area. This recycling operation currently contains two (2) above-ground stainless steel reactors, six (6) aboveground ammonia scrub tanks, three (3) aboveground product storage tanks, and various aboveground process chemical tanks. All tanks within this area are located on an epoxy-coated concrete floor, which is sloped to a floor trench system. The floor trench system is connected to the WWTS (i.e. AOC-E2).

The primary hazardous constituents managed within this processing area are: ammonia, arsenic, chloride, copper, chromium, lead, nickel, tin, and zinc.

The start-up date for this AOC is estimated to be 1970.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

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Potential Releases:

Spills or releases within AOC-E4 would be directed to the WWTS (i.e. AOC-E2) by means of sloped concrete floors and a floor trench system.

The IPC Corporation (IPC) installed monitoring wells MW-106 (formerly known as MAC-4) and MW-107 (formerly known as MAC-3) (see Figure 2) within the area of the copper etchant processing area (date is not known). Based on GZA's 1995 groundwater sampling results, the groundwater in this area has been impacted by metals and cyanide.

Summary of all test results performed in this area are presented under the "Human Exposure" and "Groundwater Control" descriptions.

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\$2.5 AOC Letter: AOC-E (continued)

AOC Name:

AOC-E5 - Acid Tank Farm

AOC Description:

The outside Acid Tank Farm is located on the southwestern side of the Huntingdon Avenue building (see Figure 2). This area is currently used to store bulk quantities of the raw process chemicals: hydrochloric acid, nitric acid, hydrogen peroxide, and sulfuric acid. A maximum of 30,000 gallons of process chemicals can be managed within this area at any one time. The storage tanks are located on an epoxy-coated concrete base and surrounded by a 2-foot high epoxy-coated concrete berm. Within this storage area are two collection sumps, which are connected to the WWTS (i.e. AOC-E2).

The start-up date of this AOC, which is currently in use, is not known.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

Spills or releases within AOC-E5 would be directed to the WWTS (i.e. AOC-E5) by means of the asphalt base, concrete berm, and two (2) collection sumps.

To minimize the possibility of any releases from AOC-E5 and other AOCs in the area to the stormwater collection system, MacDermid retrofitted catch basins CB-1, CB-2, and CB-3 with watertight manhole covers in 1998. The locations of these catch basins are shown on Figure 2.

As discussed in AOC-E1, groundwater in this area has been impacted (see "Human Exposure" and "Groundwater Control" descriptions). Groundwater (see Table 9) exhibited metal concentrations (e.g., copper nickel, and zinc) and cyanide above the CT-RSR's SWPC standards.

Rev. No. 0

AOC Letter: AOC-E (continued)

AOC Name:

AOC-E6 - 1994 Spent Copper Etchant Spill

AOC Description:

In November 1994, approximately 1,500-gallons of spent copper etchant was accidentally released to the Steele Brook through the stormwater collection system. As described more fully below, MacDermid believes this release was caused by the vacuum generated from the piping system of a non-contact cooling water discharge.

On November 5, 1994, MacDermid temporarily stored copper etchant in a 4,000-gallon scrub tank which was previously equipped with a non-contact cooling water coil. Although the coil was removed, the piping to and out of the coil remained in-place (inside the storage tank). The inlet pipe was equipped with a valve, which was placed in the closed position. The outlet pipe was equipped with a check-valve, which prevented water from entering the tank but allowed water to exit the tank (correct position with cooling coil in-place).

At the time of the accident, the non-contact cooling water pipe was located directly above the 4,000-gallon storage tank. The flow of non-contact cooling water within the above pipeline generated a sufficient vacuum to pull the spent copper etchant out of the scrub tank through the cooling coil's outlet pipe. This mixture of non-contact cooling water and spent copper etchant was discharged to catch basin CB-2 or CB-3. The discharge of non-contact cooling water was authorized by a CT-DEP permit. The discharge of non-contact cooling water was eliminated by MacDermid in the spring of 1997.

Upon discovery of this release, MacDermid removed the copper etchant from the 4,000-gallon storage tank and immediately contacted the CT-DEP. The CT-DEP supervised the initial removal activities which included removing more than 30,000 gallons of water and copper etchant from Steele Brook. Following the removal activity. MacDermid hired HRP to sample the sediment within Steele Brook. The results of HRP's sampling activity was submitted to the CT-DEP on December 24, 1994 (see Appendix K).

As indicated in Appendix K, a total of fifteen (15) sediment samples were collected and analyzed for copper, lead, nickel, and zinc by mass analysis. The metal concentrations, in general, decreased as the downgradient sampling distance from the outfall of the stormwater drainage system increased. The two (2) sediment samples collected upgradient of stormwater drainage system's outfall (2 and 6) also exhibited relatively high concentrations of the metals copper, lead, nickel, and zinc. The Steele Brook and the stormwater drainage system, which received MacDermid's 1994 spent copper etchant spill, have been used for years as the discharge location by other manufacturing facilities for industrial wastewaters.

Although the CT-RSR currently contains no standards for sediment, all the 1994 sediment samples exhibited concentrations below the CT-RSR's Residential DEC standards.

Known Releases:

A description of this November 1994 spill of spent copper etchant to Steele Brook is provided under "AOC Description" immediately above.

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AOC Letter: AOC-E (continued)

AOC Name:

AOC-E6 - 1994 Spent Copper Etchant Spill (continued)

To eliminate the possibility of any future release of spent copper etchant from a noncontact cooling water discharge, MacDermid has implemented the following operational changes:

- Spent copper etchant is only stored in designated units (i.e., spent bulk copper etchant storage tanks, AOC-E3);
- Eliminated the non-contact cooling water discharge. A closed-loop non-contact cooling water recycling system has been installed; and
- Cut and capped the former non-contact cooling water discharge pipelines.

Potential Releases:

To minimize the possibility of any releases from other AOCs in this area to the stormwater collection system, MacDermid has also retrofitted catch basins CB-1, CB-2, and CB-3 with watertight manhole covers in 1998. The locations of these catch basins are shown on Figure 2.

Prior to 1998, MacDermid covered the catch basins with spill mats during incoming and outgoing shipments of hazardous materials to prevent releases to Steele Brook through the catch basins.

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2:5 AOC Letter: AOC-E (continued)

Human Exposure:

The known investigations performed to date in the area of AOC-E are as follows:

- IPC Corporation Groundwater Investigations (estimated to be 1988);
- GZA's Soil and Groundwater Investigations (1995); and
- HRP's Groundwater Sampling Event (2001).

In the area of AOC-E, soil samples collected from GZA borings B-2, B-3, MW-108, and MW-109 (formerly known as GZ-11, GZ-10, GZ-9, and GZ-8), were submitted in January/February 1995 for analysis of TCLP extractable metals¹ and volatile organic compounds by EPA Method 8260. No soil samples were collected from GZA boring B-4 (formerly known as GZ-4) since a concrete obstruction was encountered at six (6) feet.

A summary of the 1995 GZA soil sampling results is provided in Table 8. Included in Table 8 are the applicable CT-RSR's standards DEC and GB PMC. As indicated in Table 8, the CT-RSR GB PMC standards for lead, chromium, and/or nickel were slightly exceeded in B-2 and MW-108. No volatile organic compounds were detected in any of the analyzed soil samples. Descriptions of the DEC and PMC standards are provided in Appendix D. Provided in Appendix I are the laboratory reports for the 1995 GZA soil samples.

In March 1995, GZA collected groundwater samples from the following monitoring wells located in the immediate vicinity of AOC-E:

- MW-106 (formerly MAC-4)
- MW-109 (formerly GZ-8)
- MW-107 (formerly MAC-3)
- MW-110 (formerly (MAC-1)
- MW-108 (formerly GZ-9)

The groundwater samples were submitted for analysis of dissolved metals², total and amenable cyanide (excluding monitoring well MW-110), fluoride and VOCs by EPA Method 8260.

In February 2001, HRP collected the second round of groundwater samples from the following monitoring wells located in the immediate vicinity of AOC-E:

- MW-108 (formerly GZ-9)
- MW-109 (formerly GZ-8)
- MW-110 (formerly MAC-1)

HRP did not collect groundwater samples from monitoring wells MW-106 (formerly MAC-4) and MW-107 (formerly MAC-3) for the reasons stated below:

MW-106:

Monitoring well could not be located.

MW-107:

An obstruction was encountered approximately 6 feet below grade. The cap

to well was covered with concrete.

²¹ Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

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**** AOC Letter: AOC-E (continued)

Human Exposure (continued)

The February 2001 groundwater samples were submitted to EAS Laboratories (EAS), an EPA contract laboratory located in Watertown, Connecticut, for analysis of the same parameters completed in 1995.

A floating petroleum product (approximately 6 inches in depth) was observed in monitoring well MW-108 on February 8, 2001. Prior to sampling this well on February 8, 2001, the floating petroleum product was removed using bailers. This well, which was re-surveyed on February 12 and 14, 2001, was noted to contain approximately 3 inches and ½ inch of floating petroleum product, respectively. A sample of the petroleum product was submitted to EAS for fingerprinting on February 12, 2001. As indicated in Appendix F, the petroleum product was determined to contain primarily High Range Organics (HRO). HRO is comprised of organic compounds which contain approximately 20 to 40 carbon atoms. According to EAS, the petroleum product is substantially identical to 30 weight motor oil. This oil was also determined to contain no PCBs (see Appendix F).

Surrounding monitoring wells MW-109 and MW-110 and assumed downgradient monitoring well MW-111 (formerly known as GZ-6) contain no visible petroleum product or petroleum sheen. Monitoring well MW-110, however, did exhibit a green tint. Filtered and unfiltered groundwater samples were submitted to EAS for analysis to determine the possible source (i.e. groundwater or fines in the well). The unfiltered groundwater sample was analyzed for metals only. As indicated in Appendix F, the unfiltered groundwater sample exhibited higher chromium, copper, silver, and zinc concentrations, which indicates the fines surrounding this well are contaminated.

Summarized in Table 9 are 1995 and 2001 groundwater sampling results for the monitoring wells located in the immediate vicinity of AOC-E. Included in Table 9 are the applicable CT RSR's SWPC and VC standards (see Appendix D). As indicated in Table 9, the SWPC for copper was exceeded in MW-108, 109, and 110 in February 2001. Provided in Appendices E and F are the 1995 and 2001 groundwater laboratory reports, respectively.

Since the MacDermid facility is located in a GB groundwater classification area and no groundwater drinking supply sources are known to be located in the immediate area, the Groundwater Protection Criteria (GWPC) does not apply (see Section 22a-133k(d) of RCSA).

Based on the data presented in Tables 8 and 9, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-E are as follows:

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2.5 AOC Letter: AOC-E (continued)

Human Exposure (continued)

			······································	Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		X		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply. Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		X		Soil samples collected from borings B-2, B-3, MW-108, and MW-109 exhibited no VOCs (see Table 8). The groundwater within the area of this AOC has exhibited VOCs significantly below the Industrial/Commercial VC standards (see Table 9).
Surface Soil (<2 ft)			Х	As indicated in Table 8, the only soil sample, which was collected from a depth of <2 ft and analyzed by GZA, was MW-109. This soil sample which was collected in the footprint of the 1975 lagoon area (i.e., AOC-E1) did not exceed CT-RSR's GA-PMC standards. Since no other 0 to 2 foot subsurface investigations have been performed in the area of AOC-E, it is unknown if the subsurface soil has been impacted.
Surface Water			X	As indicated in Table 9, monitoring wells MW-108, MW-109, and MW-110 have exhibited metals and cyanide concentrations above the SWPC standards. These monitoring wells, however, are located approximately 1,500 feet from the Naugatuck River. In addition, MW-111, which appears to be located hydraulically downgradient of AOC-E, only slightly exceeded the CT-RSR's SWPC for zinc in February 2001. Therefore, it is unknown if the surface water has been impacted.
Sediment		Χ		Not applicable.
Subsurface Soil (>2 ft)	Х			As indicated in Table 8, soil samples B-2 and MW-108, which were collected at depth of 10'-12', exhibited metal concentrations above the PMC standards.
Air (outdoors)		Х		Not applicable.

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

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2.5 AOC Letter: AOC-E (continued)

Human Exposure (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Workers Construction	Except for the small area located on the western side of the Huntingdon Avenue building, the areas within AOC-E are covered with concrete or asphalt. Therefore, on-site workers and construction workers would only be exposed to potentially contaminated soil if excavation operations are performed in the area of AOC-E. Trespassers are prevented from entering AOC-E by means of a chain-link fence, locked gate, locked facility doors, and building walls. No recreation activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Construction	If excavation operations are performed in the area of AOC-E, construction workers could be exposed to potentially contaminated soil.

Groundwater Control

A summary of the groundwater monitoring data for AOC-E is presented in Table 9. As indicated in Table 9, the CT RSR's SWPC standards for metals and cyanide were exceeded in monitoring wells MW-106 through MW-110 in 1995. In 2001, monitoring wells MW-108, MW-109, and MW-110 also exhibited metal and cyanide concentrations above the CT-RSR's SWPC. The metal and cyanide concentrations in MW-108 and MW-110 were, however, significantly lower in 2001. The concentrations of copper and total cyanide in MW-109 were slightly higher in 2001.

Based on the groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River. The depth to groundwater in the area of AOC-E is approximately 30 feet. The depth to bedrock in the area of AOC-E is estimated to be 80-120 feet based on published data.

HRP

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care day-care centers are located in the area and no crops are grown in the area.

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2.5 AOC Letter: AOC-E (continued)

The horizontal and vertical dimensions of the contaminated groundwater in the area of AOC-E have not been defined at this time. However, the concentrations of pollutants detected in the assumed downgradient overburden groundwater monitoring wells (MW-111 and MW-113) are significantly lower than AOC-E's monitoring wells MW-108, MW-109, and MW-110. In addition, the detection of petroleum products or sheen has been limited to monitoring well MW-108. The level of petroleum product in MW-108 has also decreased from a high of six (6) inches on February 8, 2001 to one-half (½) inch on February 14, 2001.

Data Gaps

- Source of Petroleum Product in MW-108.
- No groundwater sampling results for MW-106 and MW-107 (formerly known as MAC-4 and MAC-3, respectively) for 2/01.
- Upgradient monitoring wells (concentration of contaminants entering AOC-E in the shallow overburden and deeper overburden).
- Concentration of contaminants exiting the site in shallow overburden and deeper overburden (downgradient of AOC-E).
- Mass concentrations of metals and cyanide in soils beneath the unpaved areas located west of the Huntingdon Avenue facility.

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2.6 AOC Letter: AOC-F

AOC Name:

Former 6,000 Gallon UST (East Aurora Street Building)

AOC Description:

This AOC was comprised of one (1) 6,000 gallon UST located on the eastern side of the East Aurora Street building (see Figure 2).

This former #2 fuel oil storage tank was removed from service in September 1998 (see Appendix H). Due to the location of this AOC (partially beneath the East Aurora Street building), it was abandoned in-place as follows:

- · Removed remaining fuel oil;
- · Cleaned the tank; and
- Filled with foam.

Known Releases

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

Releases from the UST in this AOC may have occurred if the structural integrity of the UST had been impacted prior to abandonment in-place or during filling operations. As shown on Figure 2, monitoring well MW-105 appears to be located immediately downgradient of AOC-F. No petroleum hydrocarbon sheen or organic compounds typically contained in petroleum products were observed in MW-105 during the February 2001 sampling event. Soil and groundwater data for MW-105 are presented in Tables 6 and 7, respectively, and discussed under "Human Exposure" and "Groundwater Control" descriptions.

Human Exposure:

The known investigations performed to date in the area of AOC-F are as follows:

- GZA Soil and Groundwater Investigations (1995); and
- HRP's Groundwater Sampling Event (2001).

On February 15, 1995 (see Appendix C), GZA installed monitoring well MW-105 (formerly known as GZ-7). Upon installation of this well, the soil sample collected from the 15-17 foot horizon was submitted for analysis of TCLP extractable metals² and VOCs by EPA Method 8260.

A summary of the 1995 GZA soil sampling results is provided in Table 6. Included in Table 6 are the applicable CT RSR's DEC and PMC standards. As indicated in Table 6, no PMC standards were exceeded. Descriptions of the DEC and PMC standards are provided in Appendix D. Provided in Appendix I are the laboratory reports for the GZA soil samples.

²Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

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2.6 AOC Letter: AOC-F (continued)

Human Exposure (continued)

In March 1995 and February 2001, groundwater samples were collected from MW-105 and analyzed for dissolved metals², total and amenable cyanide, fluoride and VOCs by EPA Method 8260.

A summary of the groundwater results for MW-105 are presented in Table 7. Included in Table 7 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). No SWPC or VC standards were exceeded in MW-105 in February 2001 (see Table 7). Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Based on the data presented in Tables 6 and 7, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-F are as follows:

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Groundwater Receptor Survey completed by HRP.
Air (indoors)		X		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)			Х	The former 6,000-gallon heating oil UST is located partially beneath the East Aurora Street building and beneath an asphalt cap. No subsurface investigations have been performed in the immediate area of this UST.
Surface Water		-	Х	No SWPC or VC standards were exceeded in MW-105 during February 2001 (see Table 7). However, since groundwater monitoring is currently limited to one (1) downgradient overburden well, the impact to the underlying groundwater (if any) is not known at this time.
Sediment		Χ		Not applicable.
Subsurface Soil (>2 ft)			Х	Monitoring well MW-105 appears to be located immediately south of the former 6,000-gallon UST. Although no CT-RSR exceedances were detected in this soil sample, it is not known if this sample was representative of the former UST's subsurface soil.
Air (outdoors)		Х		This AOC was used to store only #2 fuel oil, therefore this pathway is not applicable.

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2.6 AOC Letter: AOC-F (continued)

Human Exposure (continued)

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Residents Trespassers Workers Construction	AOC-F is not located in a secure area. The area directly above the former UST is covered with an asphalt cap. If soil excavations are performed in the area of this AOC, the listed human receptors could be exposed to potentially contaminated soil. No recreational activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-F, on- site workers and construction workers could be exposed to poten- tially contaminated soil (if it exists).
Sediment	Residents Recreation	Not Applicable

Monitoring well MW-105 appears to be located immediately hydraulically downgradient of AOC-F. As indicated in Table 7, no metals, cyanide or VOC CT-RSR exceedances were detected in this shallow overburden monitoring well in February 2001.

Since the groundwater sampling results are limited to one (1) shallow overburden monitoring well, the horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-F have not been defined at this time.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.7 AOC Letter: AOC-G

AOC Name:

East Aurora Street Warehouse

AOC Description:

• The East Aurora Street warehouse, which is located in the center of the site, was constructed in circa 1985 (see Figure 2). This AOC consists of the main hazardous waste storage area, the quality control area, the finished product storage area and the shipping/receiving area.

The main hazardous waste storage area is currently used by MacDermid for the storage of spent copper etchant solution in containers, process chemicals (excluding solvents) in containers, finished products in containers, wooden pallets, empty containers, and miscellaneous items such as scrap steel, office equipment, etc. This rectangular-shaped storage area measures 93' long by 42' wide. Secondary containment is provided by an epoxy-coated concrete floor, building walls, 3½" high concrete berms and a collection sump. The material collected within the sump is pumped to MacDermid's WWTS (i.e., AOC-E2).

The quality control area, which is located immediately east of the main hazardous waste storage area (see Figure 2), is used for performing spot tests on containers of spent copper etchant. Secondary containment within this triangular-shaped storage area is provided by an epoxy-coated concrete floor, building walls and $3\frac{1}{2}$ " to 6" high concrete berms.

Secondary containment within the finished product storage area and the shipping/receiving area is provided by an epoxy-coated floor and building walls. No floor drains are known to be located in these areas.

The areas immediately outside this AOC are covered with asphalt.

Known Releases:

No documented releases to the surrounding environment are known to exist for this

AOC.

Potential Releases:

Releases to the environment may potentially occur from the shipping/receiving area in the event of a spill or release during loading and unloading operations. Spills or leaks within the East Aurora Street warehouse would be retained by concrete floor, building walls and concrete berms.

Human Exposure:

The known investigations performed to date in the area of AOC-G are as follows:

- IPC Corporation Soil Test Pits (1985);
- GZA's Soil and Groundwater Investigation (1995); and
- HRP's Groundwater Sampling Event (2001).

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2.7 AOC Letter: AOC-G (continued)

Human Exposure (continued)

Prior to construction of the East Aurora Street warehouse, IPC Corporation collected soil samples from five (5) test pits in April 1985. The estimated locations of these test pits (TP-1 through TP-5) are shown on Figure 2. The collected soil samples were analyzed for polychlorinated biphenyls (PCBs) aromatic hydrocarbons, and halogenated organics. Soil samples from TP-2 and TP-4 were also analyzed for the RCRA eight (8) metals and copper, nickel, tin, and zinc by the E.P. Toxicity testing procedure. Soil samples from TP-2, TP-4, and TP-5 were analyzed for oil and grease. The results of these April 1985 soil testing results are presented in Table 10. As indicated in Table 10, TP-2 exhibited concentrations of cadmium, lead, and nickel above CT-RSR's PMC standards and TP-4 exhibited a cadmium concentration slightly above the CT-RSR's PMC standard.

(Note: No laboratory reports could be located.)

Copies of the test pit logs, which were prepared by Heynen Engineers, are provided in Appendix C.

On January 13, 1995, GZA installed monitoring well MW-111 (formerly known as GZ-6), immediately south of the finished Products Storage Area (see Figure 2). The soil sample collected from the 0.5-2.5 foot horizon was submitted for analysis of TCLP extractable metals² and VOCs by EPA Method 8260. A summary of the GZA's soil sampling results is provided in Table 11. Included in Table 11 are the applicable CT-RSR's DEC and PMC standards (see Appendix D). Provided in Appendix I are the laboratory reports for the GZA 1995 soil samples. In March 1995 and February 2001, groundwater samples were collected from MW-111 and analyzed for dissolved metals², total and amenable cyanide, fluoride and VOCs by EPA Method 8260.

A summary of the groundwater results for MW-111 is presented in Table 12. Included in Table 12 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). As indicated in Table 12, only the SWPC standard for zinc was slightly exceeded in February 2001. Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Based on the data presented in Tables 10, 11, and 12, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-G are as follows:

²Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

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2.7 AOC Letter: AOC-G (continued)

Human Exposure (continued)

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Χ		The concentrations of VOCs detected in the current groundwater monitoring system (see Tables 2-17) are significantly below the CT-RSR's VC standards.
Surface Soil (<2 ft)	X			As indicated in Tables 10 and 11, the soil samples collected from TP-2 in 1985 and MW-111 in 1995 exhibited one (1) or more metal concentration above the CT-RSR's SWPC standards. The only VOC detected in these soil samples was 0.013 µg/kg of tetrachloroethylene in TP-5 (below CT-RSR standards).
Surface Water			Х	As indicated in Table 12, the concentration of zinc detected in MW-111 during the February 2001 groundwater sampling event (0.15 mg/l), slightly exceeded CT-RSR's SWPC of 0.123 mg/l.
Sediment		X		Not applicable.
Subsurface Soil (>2 ft)	Х			As indicated in Table 10, the soil sample collected from TP-4 in 1985 at a depth of 4 feet slightly exceeded the CT-RSR's GB PMC standard for cadmium.
Air (outdoors)		Х		This AOC is located inside the East Aurora Street building, therefore this pathway is not applicable.

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

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2.7 AOC Letter: AOC-G (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Workers Construction	AOC-G is located in a secure area (inside the East Aurora Street building). If excavation operations are performed in this area (i.e.
(~2 11)	Construction	below concrete floor), on-site workers and construction workers could be exposed to potentially contaminated soil. No recreational activities are performed in this area.
Surface	Residents	The groundwater flow direction (see Figure 3) appears to be
Water	Recreation	south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-G, on- site workers and construction workers could be exposed to poten- tially contaminated soil.

Groundwater Control:

Based on groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River. The overburden groundwater monitoring well MW-111 appears to be located hydraulically downgradient of AOC-G. Monitoring well MW-111 was sampled and analyzed in March 1995 and February 2001 (see Table 12).

As indicated in Table 12, only the CT-RSR SWPC standard for zinc was slightly exceeded in monitoring well MW-111 in February 2001.

The horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-G have not been determined at this time with the existing groundwater monitoring system.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions in AOC-G.

HRP

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The 'day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.8 AOC Letter: AOC-H

AOC Name:

Flammable Material Rack Storage Area

AOC Description:

The Flammable Material Rack Storage Area is located on the northwestern side of the site, approximately 200 feet north of the Gear Street Building (see Figure 2). This outdoor storage area, which is 40 feet long by 25 feet wide, is used to store containers of raw flammable chemicals such as alcohols, solvents, etc.

Within this storage area the raw material containers are stored on a four-tier high drum rack system. Secondary containment is provided by a concrete floor and a three (3) inch high concrete berm.

Known Releases:

No documented releases to the surrounding environment are now to exist for this

AOC.

Potential Releases:

In the event of a spill or release outside this AOC's secondary containment area, the releases would flow towards the on-site catch basins. All raw material transfer operations at MacDermid, Inc. are performed by experienced forklift operators. Spill control equipment is maintained inside AOC-H.

Human Exposure:

The known investigations performed to date in the area of AOC-H are as follows:

- GZA's Soil and Groundwater Investigation (1995); and
- HRP's Groundwater Sampling Event (2001).

On January 13, 1995, GZA installed groundwater monitoring well MW-112 (formerly known as GZ-3) immediately north of the Gear Street Building (see Figure 2).

During the installation of MW-112, GZA collected and analyzed the soil sample collected from the 0.5-2.5 foot horizon. A summary of the GZA's soil sampling results is provided in Table 13. Included in Table 13 are the applicable CT-RSR's DEC and PMC standards (see Appendix D). As indicated in Table 13, only the PMC standard for lead was exceeded. Provided in Appendix I are the laboratory reports for the GZA 1995 soil samples.

In March 1995 and February 2001, groundwater samples were collected from MW-112 and analyzed for dissolved metals², total and amenable cyanide, fluoride and VOCs by EPA Method 8260. Included in Table 14 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). As indicated in Table 14, only the SWPC for zinc was slightly exceeded in February 2001. Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Date: March 16, 2001 Rev. No. 0

2.8 AOC Letter: AOC-H (continued)

Human Exposure (continued)

Based on the data presented in Tables 13 and 14, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-H are as follows:

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Х		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)			X	The 1995 soil sample collected at the 0.5-2.5' horizon in MW-112 did exhibit a lead concentration above CT-RSR's GB PMC. This monitoring well, however, is located approximately 150 feet south of AOC-H (i.e., not located in the footprint of AOC-H) (see Figure 2). This lead contamination may have been caused by the Waterbury Steel Ball Company who occupied the Gear Street Building from prior to 1992 to circa 1977. The area above and surrounding AOC-H are covered with asphalt and/or concrete. No know subsurface investigations have been performed in the immediate area of AOC-H.
Surface Water			Х	As indicated in Table 14, the concentration of zinc detected in MW-112 in February 2001 (0.16 mg/l) slightly exceeded CT-RSR's SWPC of 0.123 mg/l. MW-112 appears to be located hydraulically downgradient of AOC-H.
Sediment		Χ		Not applicable.
Subsurface Soil (>2 ft)			Х	No subsurface investigations have been performed in the area of AOC-H.
Air (outdoors)		Х		Not applicable.

Summarized below are the human receptors, which are expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

²Arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.

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2.8 AOC Letter: AOC-H (continued)

Human Exposure (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Workers Construction	AOC-H is located in a secure area. The area surrounding this AOC is covered with a concrete or asphalt cap. Therefore, on-site workers and construction workers exposure to potentially contaminated soil would only occur if excavation activities are performed in this area. No recreational activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-H, on- site workers and construction workers could be exposed to poten- tially contaminated soil.
Sediment	Residents Recreation	Not Applicable

Groundwater Control

Based on groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River. The overburden groundwater monitoring well MW-112 appears to be located hydraulically downgradient of AOC-H.

Summary of the groundwater monitoring data for MW-112 is provided in Tables 14. As indicated in Table 14, only the CT-RSR's SWPC standards for zinc was slightly exceeded during the February 2001 sampling event.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions in AOC-H.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.9 AOC Letter: AOC-I

AOC Name:

Ink Spill Area

AOC Description:

In 1987, IPC personnel discovered stained soil underneath a concrete pad located north of the Gear Street Building and near a former ink spill sump (IPC 1987). The spill material appeared to be an epoxy-like ink product which was manufactured at MacDermid, Inc. The material safety data sheet for the MacDermid ink product MACUMASK 9415 (suspected spill material) was reported to be comprised of the following:

- Pigments (organic, non-metallic) 0.4%
- Catalyst (aromatic ketones) 7.8%
- Vehicle (acrylic monometers) 75.5%
- Additives (filter such as MgO, CaSO₄, etc.)

The release was reported to the CT-DEP and cleaned-up in accordance with CT-DEP's "Contaminated Soils Removal and Disposal Guidelines". Approximately 550 cubic feet of soil was reportedly removed from this release area and disposed off-site.

The estimated location of this release area is shown on Figure 2. Description of the remedial actions followed in 1987 is provided in the "Known Releases" description.

Known Releases:

This release was reported to have occurred from the former ink spill sump. The date this release occurred is not readily known.

The remedial measures performed at this AOC in 1987/1988 are reported to be the following:

- Following removal of the concrete pad, collected two (2) composite soil samples from the western face of the excavation at the following locations:
 - > 30 inches below grade, visually clean soil; and
 - > 18 inches below grade, ink/soil layer.
- Based on soil sampling results (see Table 15), excavated to a depth of 30-36 inches. The area of excavation was 11.5 feet by 16 feet;
- Following excavation, collected a composite soil sample from the bottom of the excavation in November/December 1987. Sampling results are presented in Table 15;
- Collected soil samples from the eastern and western face (i.e., sidewalls) of the excavation in March 1988; and
- Based on the November/December 1987 and March 1988 soil sampling results (see Table 15), requested CT-DEP approval to backfill the excavation.

The excavation area was backfilled and is now covered with asphalt (i.e., part of the parking lot).

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2.8 AOC Letter: AOC-I (continued)

Potential Releases:

The release of epoxy-like ink at AOC-I may have impacted the underlying groundwater. Groundwater data in the area of AOC-I is provided in Table 17 and discussed in

"Human Exposure" and "Groundwater Control" descriptions.

Human Exposure:

The known investigations performed to date in the area of AOC-I are as follows:

- IPC Corporation's Soil Testing Results (1987/1988);
- GZA's Groundwater Investigation (1995); and
- HRP's Groundwater Sampling Event (2001).

Description of the contaminated soil investigation and removal activities performed in 1987/1988 by the IPC Corporation is provided in AOC-I's "Description" and "Known Releases" write-ups. A summary of the IPC soil sampling results is provided in Table 15. Included in Table 15 are the applicable CT-RSR's DEC and PMC standards (see Appendix C). Provided in Appendix L are the laboratory reports for the IPC 1987 soil sample.

On January 15, 1995, GZA installed groundwater monitoring well MW-113 immediately south of the Gear Street Building. This monitoring well, which appears to be located hydraulically downgradient of AOC-I, was sampled by GZA in March 1995 and HRP in February 2001. Based on the groundwater monitoring results, which are summarized in Table 16, only the CT-RSR's SWPC for zinc was slightly exceeded in February 2001. No solvents, which were detected in 1987/1988 soil sampling activity (see Table 15) have been detected in the groundwater. Copies of the 1995 and 2001 groundwater laboratory reports are provided in Appendices E and F, respectively.

Based on the data presented in Tables 15 and 16, the environmental media (i.e. groundwater, soil, etc.) know or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-I are as follows:

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Х		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)			Х	The contaminated soil detected in this AOC in 1987/1988 was excavated and disposed of off-site. This area is currently covered with an asphalt cover.
Surface Water			Х	As indicated in Table 16, the concentration of zinc detected in MW-113 in February 2001 (0.16 mg/l) slightly exceeded CT-RSR's SWPC of 0.123 mg/l. MW-113 appears to be located hydraulically downgradient of AOC-I.
Sediment		X		Not applicable.
Subsurface Soil (>2 ft)			Х	The contaminated soil detected in AOC-I was excavated and disposed off-site in 1987.
Air (outdoors)		X		Not applicable.

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2.9 AOC Letter: AOC-I (continued)

Human Exposure (continued)

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil	Workers	AOC-I is located in a secure area. The area surrounding this AOC is
(<2 ft)	Construction	covered with asphalt (i.e., part of the parking lot). Therefore, on-site workers and construction workers exposure to potentially contaminated soil would only occur if excavation activities are performed in this area. No recreational activities are performed in this area.
Surface	Residents	The groundwater flow direction (see Figure 3) appears to be south-
Water	Recreation	southeast towards the Naugatuck River, which is located approximately 1,500 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-I, on-site workers and construction workers could be exposed to potentially contaminated soil.

Groundwater Control)

Based on groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River. The overburden groundwater monitoring well MW-113 appears to be located hydraulically downgradient of AOC-I.

Summary of the groundwater monitoring data for MW-113 is provided in Table 16. As indicated in Table 16, only the CT-RSR's SWPC standard for zinc was slightly exceeded during the February 2001 sampling event. The horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-I have not been defined at this time.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions in AOC-I.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.10 AOC Letter: AOC-J

AOC Name:

4,000 Gallon UST (Gear Street Building)

AOC Description:

This AOC is comprised of one (1) 4,000 gallon #2 fuel oil underground storage tank (UST) located on the northeastern side of the Gear Street building (see Figure 2). This UST, which was installed in November 1988, replaced a 10,000-gallon UST that was installed in 1963. The former 10,000-gallon UST was also used to store #2 fuel oil. The existing 4,000 gallon steel UST is cathodically protected. The cathodically protected system is tested at least annually to ensure the required negative voltage between the UST and the copper sulfate electrode is being maintained.

Known Releases:

No documented releases to the surrounding environment are known to exist for this

AOC.

Potential Releases:

Releases from the UST in this AOC may potentially occur if the structural integrity of the UST has been impacted or during filling operations. As shown on Figure 2, monitoring well MW-113 appears to be located downgradient of AOC-J. No petroleum hydrocarbon sheen or organic compounds typically contained in petroleum products were observed in MW-113 during the February 2001 sampling event. Groundwater data for MW-113 are presented in Table 16, and discussed under

"Human Exposure" and "Groundwater Control" descriptions.

Human Exposure:

The known investigations performed to date in the general area of AOC-J are as follows:

- GZA's Groundwater Investigations (1995); and
- HRP's Groundwater Sampling Event (2001).

On January 15, 1995 (see Appendix C), GZA installed monitoring well MW-113 (formerly known as GZ-5). This monitoring well, which appears to be located hydraulically downgradient of AOC-J, was sampled by GZA in March 1995 and HRP in February 2001.

A summary of the groundwater results for MW-113 are presented in Table 16. Included in Table 16 are the applicable CT-RSR's SWPC and VC standards (see Appendix D). In February 2001, only the CT-RSR SWPC standard for zinc was slightly exceeded. No petroleum hydrocarbon sheen or organic compounds typically contained in petroleum products were observed in MW-113 during the February 2001 sampling event.

Based on the data presented in Table 16, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-J are as follows:

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2.10 AOC Letter: AOC-J (continued)

Human Exposure (continued)

			-	Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		X		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Groundwater Receptor Survey completed by HRP.
Air (indoors)		Χ		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)			Х	The 4,000-gallon heating oil UST is located beneath an asphalt cap (i.e., part of the parking lot). No subsurface investigations have been performed in the immediate area of this UST. Monitoring well MW-113 is located approximately 300 feet south of the 10,000-gallon UST. Therefore, the soil sample collected and analyzed by GZA from the 0'-2' soil horizon of MW-113 in 1995, is not representative of this UST's subsurface soils.
Surface Water			Х	No SWPC or VC standards were exceeded in MW-113 during February 2001 (see Table 16). However, since groundwater monitoring is currently limited to one (1) downgradient overburden well and this well is located approximately 300 feet south of the UST, the impact to the underlying groundwater (if any) is not known at this time.
Sediment		X		Not Applicable.
Subsurface Soil (>2 ft)			Х	No subsurface investigations of greater than 2 feet have been performed in the area immediately surrounding the UST.
Air (outdoors)		Х		This AOC is used to store only #2 fuel oil, therefore this pathway is not applicable.

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Rev. No. 0

2.10 AOC Letter: AOC-J (continued)

Human Exposure (continued)

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil	Residents	AOC-J is located in a secure area, north of the Gear Street building.
(<2 ft)	Trespassers	The area directly above the UST is covered with an asphalt cap. If
	Workers	soil excavations are performed in the area of this AOC, the listed
	Construction	human receptors could be exposed to potentially contaminated soil.
		No recreational activities are performed in this area.
Surface	Residents	The groundwater flow direction (see Figure 3) appears to be south-
Water	Recreation	southeast towards the Naugatuck River, which is located approximately 1,300 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-J, on-site workers and construction workers could be exposed to potentially contaminated soil (if it exists).

Groundwater Control

Monitoring well MW-113 appears to be located hydraulically downgradient of AOC-J. As indicated in Table 16, only the VOC CT-RSR SWPC standard for zinc was exceeded in this shallow overburden monitoring well in February 2001.

Since the groundwater sampling results are limited to one (1) shallow overburden monitoring well which is located approximately 300 feet south of this AOC, the horizontal and vertical dimensions of potentially contaminated groundwater in the area of AOC-J have not been defined at this time.

Data Gaps:

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical directions.

HRP

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.11 AOC Letter: AOC-K

AOC Name:

AOC-K1 - Former Flammable Storage Area

AOC Description:

The Former Flammable Storage Area, which was located in the northeastern side of the Gear Street Building (see Figure 2), was used to store containers of flammable hazardous waste. Within this former 8 foot by 10 foot storage area, a maximum of sixteen (16) 55-gallon drums of hazardous waste would be managed at any one time. The types of waste managed within this area included flammable waste solvents (e.g., toluene, methyl ethyl ketone, xylene, etc.).

Secondary containment was provided by an epoxy-coated concrete floor and 4" x 4" epoxy-coated angle iron berms.

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To determine if the former hazardous waste storage operation had impacted the environment, closure activities were initiated in December 1999.

The closure activities, which are summarized in the report entitled, "RCRA Closure Summary for Former Hazardous Waste Storage and Recycling Areas" (see Appendix M) included the following:

- Analysis of the concrete floor of the former storage area for the hazardous constituents listed under 40 CFR 264 Appendix IX. The results of this analysis were used to finalize the list of constituents of concern (COCs) managed in this former storage area;
- Analysis of concrete floor (discrete samples) of the former storage area for all identified COCs by mass analysis and all metallic COCs by the E.P. Toxicity testing procedure; and
- Comparison of the concrete sampling results to the CT-DEP approved closure standards.

Based on the concrete chip sampling results (see Tables 1 and 10 of Appendix M), it is HRP's opinion that this AOC has <u>not</u> impacted the environment (i.e., clean closure).

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2.11 AOC Letter: AOC-K

AOC Name:

AOC-K2 - Former NMP Recycling Area

AOC Description:

The Former NMP Recycling Area was located in the same room as the Former Flammable Storage Area (see figure 2). This former recycling operation contained a 500-gallon above-ground reactor tank and a 55-gallon stainless steel product tank.

Secondary containment was provided by the concrete floor, building walls, and spill collection floor trench. Any material collected within the floor trench would have been discharged to MacDermid's on-site industrial WWTS (i.e., AOC-E2).

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To determine if the former hazardous waste recycling operation had impacted the environment, closure activities were initiated in December 1999.

The closure activities which are summarized in the report entitled, "RCRA Closure Summary for Former Hazardous Waste Storage and Recycling Areas" (see Appendix M) included the following:

- Analysis of concrete floor of the former recycling area for the hazardous constituents listed under 40 CFR 264 Appendix IX. The results of this analysis were used to finalize the list of constituents of concern (COCs) managed in this former recycling area;
- Analysis of the second concrete slab for all identified COCs by mass analysis and all metallic COCs by the E.P. Toxicity testing procedure. Discrete concrete samples were collected from beneath the cracks and gaps identified in the concrete floor surface of the recycling area;
- Analysis of subsurface soil directly beneath the second concrete slab sampled areas for all identified COCs by mass analysis and all metallic COCs by the E.P. Toxicity testing procedure;
- Analysis of concrete floor surface (discrete samples) of the former recycling area for all identified COCs by mass analysis and all metallic COCs by the E.P. Toxicity testing procedure; and
- Comparison of the concrete and soil sampling results to the CT-DEP approved closure standards.

Based on the sampling results (see Tables 3, 4, and 5 of Appendix M), approximately 5 cubic yards of concrete requires removal and disposal to meet CT-DEP's approved closure standards.

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2.11 AOC Letter: AOC-K (continued)

AOC Name:

AOC-K3 - Former Solder Stripper Recycling Area

AOC Description:

The former Solder Stripper Recycling Area was located in the northern end of the Gear Street Building (see Figure 2). This former recycling area contained three (3) above-ground process tanks. The total capacity of these tanks was 5,000 gallons. This batch recycling operation was used to process 1,300 gallons of solder stripper at a time.

Secondary containment was provided by an epoxy-coated concrete floor, building walls, and spill collection floor trench. The floor trench, which has been removed from service, would direct any collected material to MacDermid's on-site industrial WWTS (i.e., AOC-E2).

Known Releases:

No documented releases to the surrounding environment are known to exist for this AOC.

Potential Releases:

To determine if the former hazardous waste recycling operation had impacted the environment, closure activities were initiated in December 1999.

The closure activities which are summarized in the report entitled, "RCRA Closure Summary for Former Hazardous Waste Storage and Recycling Areas" (see Appendix M) included the following:

- Analysis of concrete floor of the former storage area for the hazardous constituents listed under 40 CFR 264 Appendix IX. The results of this analysis were used to finalize the list of constituents of concern (COCs) managed in this former storage area;
- Analysis of subsurface soil (beneath concrete floor cracks and gaps) for all identified COCs by mass analysis and metallic COCs by the E.P. Toxicity testing procedure;
- Analysis of concrete floor surface (discrete samples) of the former recycling area for all identified COCs by mass analysis and all metallic COC by the E.P. Toxicity testing procedure;
- Comparison of the soil and concrete sampling results to the CT-DEP approved closure standards.

Based on the soil and the concrete chip sampling results (see Tables 2, 4, 6, 7, 8, 9, and 12 of Appendix M), approximately 1.5 cubic yards of contaminated soil and 1.5 cubic yards of contaminated concrete require removal and disposal to meet CT-DEP's approved clean closure standards.

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2.11 AOC Letter: AOC-K (continued)

AOC Name:

AOC-K4 – 2000 Gear Street Industrial Wastewater Sump Release

AOC Description:

On December 5, 2000, a release from the industrial wastewater sump located in the northern end of the former Solder Stripper Recycling Area (see Figure 2) was discovered by MacDermid, Inc. personnel. This release was reported to the CT-DEP on December 6, 2000 (see Appendix N).

The volume of process industrial wastewater released from this sump is unknown.

Known Releases:

As described above, a release from the industrial wastewater sump located in the northern end of the former Solder Stripper Recycling Area was discovered on December 5, 2000.

Potential Releases:

To prevent any further releases from this sump, MacDermid has performed the following:

- Re-directed industrial wastewater discharge to another wastewater collection sump:
- Drained the leaking collection sump of any wastewater; and
- Filled-in the leaking collection sump with concrete.

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AOC Letter: AOC-K (continued)

AOC Name:

AOC-K5 - Ink Manufacturing Area

AOC Description:

This AOC is located in the southeastern side of the Gear Street Building (see Figure 2). This area, which is comprised of tanks and roller mills, is used to prepare inks for the printed circuit board industry. The types of chemicals used in this area include:

pigments, solvents, acrylimides, anilines, and resins.

Known Releases:

No documented releases to the surrounding environment are known to exist for this

AOC.

Potential Releases:

To prevent releases from entering the environment, this AOC is equipped with the following secondary containment provisions: epoxy-coated concrete floor, building walls, and wastewater collection sump. The material collected in the collection sump would be discharged to MacDermid's industrial WWTS (i.e., AOC-E2).

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2.11 AOC Letter: AOC-K (continued)

AOC Name:

AOC-K6 - Electroless Nickel Area

AOC Description:

This AOC is located along the western side of the Gear Street Building (see Figure 2). This area, which contains eight (8) process tanks with a capacity of up to 1,200 gallons (TRC, 1993), is used to manufacture electroless nickel plating solutions.

Known Releases:

No documented releases to the surrounding environment are known to exist for

AOC-K6.

Potential Releases:

To prevent releases from entering the environment, this AOC is equipped with the following secondary containment provisions: epoxy-coated concrete floor, building walls, and wastewater collection sump. The material collected in the collection sump would be discharged to MacDermid's industrial WWTS (i.e., AOC-E2).

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2.11 **AOC Letter: AOC-K (continued)**

AOC Name:

AOC-K7 – Satellite Storage Areas (3)

AOC Description:

Located with AOC-I are three (3) hazardous waste satellite storage areas. As shown on Figure 2, the satellite storage areas are located in the former Solder Stripper Recycling Area, in the Ink Manufacturing Area and immediately west of the Ink Manufacturing Area. Located within each satellite storage area are a maximum of two (2) 55-gallon drums, which are used to temporarily store the hazardous waste generated in the area. When the drum is full, it is transferred to MacDermid's ≤90

day container storage area (i.e. AOC-K8).

Known Releases:

No documented releases to the surrounding environment are known to exist for

AOC-K7.

Potential Releases:

To prevent releases from entering the environment, this AOC is equipped with the following secondary containment provisions: epoxy-coated concrete floor, building walls, and wastewater collection sump. The material collected in the collection sump

would be discharged to MacDermid's industrial WWTS (i.e., AOC-E2).

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2.11 AOC Letter: AOC-K (continued)

AOC Name:

AOC-K8 - Chemical Storage Area

AOC Description:

This AOC, which is located in the southern end of the Gear Street Building (see Figure 2) consists of the \leq 90 day hazardous waste storage area and the Chemical Storage Area. The Chemical Storage Area is the former Combustible Storage Area.

The ≤90 day hazardous waste storage area measure approximately 40 feet long by 20 feet wide. Secondary containment for this hazardous waste storage area is provided by an epoxy-coated concrete floor and 4" high epoxy-coated angle-iron.

The Chemical Storage Area (former Combustible Storage Area) was designed to store up to fifty-four (54) 55-gallon drums and four (4) 330-gallon storage totes. Secondary containment for this storage area is provided by an epoxy-coated concrete floor and 4" high epoxy-coated angle-iron.

Known Releases:

No documented releases to the surrounding environment are known to exist for

AOC-K8.

Potential Releases:

To prevent releases from entering the environment, this AOC is equipped with the following secondary containment provisions: epoxy-coated concrete floor, building walls, and wastewater collection sump. The material collected in the collection sump would be discharged to MacDermid's industrial WWTS (i.e., AOC-E2).

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2.11 AOC Letter: AOC-K (continued)

Human Exposure:

The known investigations performed to date in the area of AOC-K are as follows:

- AOC-K1 Closure Activities (2000);
- AOC-K2 Closure Activities (2000);
- AOC-K3 Closure Activities (2000);
- GZA's Soil and Groundwater Investigation (1995); and
- HRP's Groundwater Sampling Event (2001).

A description of the closure activities performed in AOC-K1, K2, and K3 in 2000 are provided in Appendix M. As discussed under Section 3.0 of Appendix M, the following materials are known to require removal and disposal to meet the applicable CT-RSR's standards:

- 5 cubic yards of contaminated concrete from AOC-K2;
- 1.5 cubic yards of contaminated concrete from AOC-K3;
- 1.5 cubic yards of contaminated soil from AOC-K3.

On January 15, 1995, GZA installed ground water monitoring well MW-113 (formerly known as GZ-5) immediately south of the Gear Street Building. During installation of this monitoring well, GZA submitted the soil sample collected from the 0-2' horizon for analysis. A summary of the GZA's soil sampling results is provided in Table 17. Included in Table 17 are the applicable CT-RSR's DEC and PMC standards (see Appendix D). Provided in Appendix I are the laboratory reports for the GZA 1995 soil samples.

Based on the data presented in Tables 16 and 17 and the Closure Report (see Appendix M), the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-K are as follows:

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply. Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Х		The concentrations detected in all soil, concrete and groundwater samples collected from this AOC have been significantly below CT-RSR's VC standards.
Surface Soil (<2 ft)	Х			The soil samples collected from AOC-K2 and AOC-K3 have exhibited concentrations above the applicable CT-RSR's standards.

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2.11 AOC Letter: AOC-K (continued)

Human Exposure (continued)

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Surface Water			х	As indicated in Table 16, the concentration of zinc detected in February 2001 (0.16 mg/l), slightly exceeded CT-RSR's SWPC of 0.123 mg/l. It should be noted that monitoring well MW-112, which appears to be located directly upgradient of MW-111, exhibited the same zinc concentration of 0.16 mg/l.
Sediment		Х		Not applicable.
Subsurface Soil (>2 ft)			Х	Subsurface investigations within the footprint of AOC-K have been limited to the top two (2) feet.
Air (outdoors)		Χ		Not applicable.

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Workers Construction	AOC-K is located in a secure area and is covered with a concrete floor. Therefore, on-site workers and construction workers exposure to contaminated soil would only occur if excavation activities are performed in this AOC. No recreational activities are performed in this area.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,300 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Construction	If excavation operations are performed in the area of AOC-K, construction workers could be exposed to potentially contaminated soil.

HRP

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

Rev. No. 0

2.11 AOC Letter: AOC-K (continued)

Groundwater Control

Based on the groundwater elevations measured in March 1995 and February 2001, the overburden groundwater appears to be flowing in a south-southeast direction towards the Naugatuck River (see Figure 3). The overburden groundwater monitoring well MW-113 appears to be located hydraulically downgradient of AOC-K. A summary of the groundwater monitoring data for MW-113 is provided in Table 16. As indicated in Table 16, the CT-RSR's SWPC standard for zinc was slightly exceeded in February 2001.

The horizontal and vertical dimensions of the contaminated groundwater in the area of AOC-K have not been defined at this time.

Data Gaps

 Groundwater monitoring system which defines the quality of groundwater in the horizontal and vertical direction.

Rev. No. 0

2.12 AOC Letter: AOC-L

AOC Name:

Transformer Vault

AOC Description:

This AOC is located on the south side of the Gear Street Building (see Figure 2). This 4'x4'x4' steel transformer vault is located on a concrete pad. It is unknown at

this time if the transformer contains or has contained PCBs.

Known Releases:

No documented releases to the surrounding environment are known to exist for

AOC-L.

Potential Releases:

Releases from this AOC may potentially occur if the structural integrity of the steel

transformer is impacted.

Human Exposure:

The known investigations performed in the area of AOC-L are as follows:

GZA's Soil and Groundwater Investigations (1995); and

HRP's Groundwater Sampling event (2001).

Descriptions of these investigations are provided in AOC-K and Tables 16 and 17.

Based on the data presented in Tables 16 and 17, the environmental media (i.e. groundwater, soil, etc.) known or reasonably suspected to be "contaminated" above the applicable protective risk-based standards in the area of AOC-L are as follows:

				Contaminated Media
Pathway	Yes	No	Unknown	Rationale
Groundwater		Х		Groundwater is not used on-site or downgradient of the site as a drinking water source, therefore, CT RSR's GWPC does not apply (see Section 22a-133k-3(d) of the RSCA). Provided in Appendix G is the February 2001 Well Receptor Survey completed by HRP.
Air (indoors)		Χ		This AOC is located outdoors, therefore this pathway is not applicable.
Surface Soil (<2 ft)			Х	No subsurface investigations have been performed in the immediate area of AOC-L.
Surface Water			X	Although no petroleum products have been detected in monitoring well MW-113, only two (2) sampling events have been completed to date.
Sediment		Х		Not applicable.
Subsurface Soil (>2 ft)			Х	No subsurface investigations of greater than 2 feet have been performed in the area immediately surrounding this AOC.
Air (outdoors)		Х		This AOC is used to store only transformer oil, therefore this pathway is not applicable.

Date: March 16, 2001 Rev. No. 0

2.12 AOC Letter: AOC-L (continued)

Human Exposure (continued)

Summarized below are the human receptors, which might be expected to be exposed to contaminated media under current site conditions (i.e. known or suspected to be above appropriate risk-based standards).

Contaminated Media	Known or Suspected Human Receptor(s) ¹	Rationale
Surficial Soil (<2 ft)	Workers Construction	AOC-L is located in a secure area. Therefore, on-site workers and construction workers would only be exposed to potentially contaminated soil if excavation operations are performed.
Surface Water	Residents Recreation	The groundwater flow direction (see Figure 3) appears to be south-southeast towards the Naugatuck River, which is located approximately 1,300 feet from this AOC. Located between this AOC and the Naugatuck River are other manufacturing activities (e.g., a scrap metal recycler and a brass mill), and Route 8. Although no swimming area or boat launch is located in the area immediately downgradient of MacDermid, Inc., sport fishing occasionally occurs in this area. Workers and trespassers are not considered to be known or suspected human receptors because no surface water bodies are located on-site.
Subsurface Soil (>2 ft)	Workers Construction	If excavation operations are performed in the area of AOC-L, on- site workers and construction workers could be potentially ex- posed to contaminated soil (if it exists).

Groundwater Control

Monitoring well MW-113 (formerly known as GZ-5) appears to be located hydraulically downgradient of AOC-L. This well exhibited no petroleum sheen in February 2001.

Data Gaps:

- Determine the current and former content (i.e., PCBs) of the transformer.
- Seasonal groundwater data.

¹ The human receptors, which were evaluated included: residents, workers, construction workers, trespassers, and recreation. The day-care and food receptors were not evaluated because no day-care centers are located in the area and no crops are grown in the area.

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TABLES

March 16, 2001 Rev. No. 0 Page 1 of 2

AOC Letter A	Clustering With Other AOCs No	AOC Name nated Soil Disposal /	Sala REI	Reasons Located >400' from the nearest AOC; not located in a secure area, therefore, current potential off-site receptors exist; appears to be located upgradient of only AOC-B (USTs) and AOC-C (Dry Chemical Silos), which contain different materials (i.e. potential contaminants). Used to store only heating oil(i.e., different contaminants); no history of releases.
O 0	No	Dry Chemical Silos Pilot Plant (AOC-D1) Main Mixing Area (AOC-D2)	9 10	Potential contaminants are not similar to other AOCs; no history of release. Located in close proximity to each other; used to manage similar materials; exposure pathways and receptors are expected to be similar.
ш	Yes	Former Waste Lagoons (AOC-E1) Wastewater Treatment System (AOC-E2) Bulk Waste Unloading and Storage Area (AOC-E3 Spent Copper Etchant Recycling Area (AOC-E4) Acid Tank Farm (AOC-E5) 1994 Spent Copper Etchant Spill (AOC-E6)	2 6 14 15 19 None	All areas are located in close proximity of each other, AOCs E3 and E5 appear to be covering a portion of the 1975 lagoon area; monitoring wells MW-106, MW-107, MW-109, and MW-110 exhibited similar contaminants above CT-RSRs in 1995; potential exposure pathways appears to be the same.
ш О	0	Former East Aurora Street Building UST East Aurora Street Warehouse	None 8	Used to store only heating oil (i.e. different contaminants); no history of releases. On-site activities have been limited primarily to storage; building was not built until 1985/1986; monitoring wells MW-104, MW-105, and MW-111 (located down- and/or side-gradient of the warehouse) exhibited concentrations below CT-RSR standards in 1995.

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		TABLE AOCs CLUST	TABLE 1 AOCs CLUSTERING	
		MacDerr 526 Hunting Waterb	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	
AOC Letter	Clustering With Other AOCs	AOC Name	Former TRC AOC Number	Reasons
I	No	Flammable Rack Storage	12	Potential contaminants are not similar to other AOCs; no history of release.
	No	Ink Spill Area	က	Located outside the Gear Street building, release has occurred in this AOC.
ſ	No	Gear Street Building UST	None	Used to store only heating oil (i.e. different contaminants); no history of releases.
¥	Yes	Former Flammable Storage Area (AOC-K1)	13 (part of)	All located in close proximity to each other, inside the Gear Street
		Former NMP Recycling Area (AOC-K2)	13 (part of)	Building; exposure pathways and receptors are expected to be
		Former Solder Stripper Recycling Area (AOC-K3)	17	similar.
		2000 Gear Street Industrial Wastewater Sump Release (AOC-K4)	None	
		Ink Manufacturing Area (AOC-K5	16	
		Electroless Nickel Area (AOC-K6)	18	
		Satellite Storage Areas (AOC-K7)	1	
		Chemical Storage Area (AOC-K8)	13 (part of)	
	<u>0</u>	Transfer Vault	ည	Potential contaminants are only petroleum hydrocarbons and PCBs; no history of releases.
				, , , , , , , , , , , , , , , , , , , ,

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evrdm/macdermid/mac-0036-ca-tables

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SUMMARY OF E.P. TOXICITY TEST RESULTS FOR AOC-A **TABLE 2**

526 Huntingdon Avenue MacDermid, Inc.

				Walt	water bury, or			
Constituent		S	Sample Number	er		Residential DEC	Industrial / Commercial	GB PMC3 /mg/l)
	-	2	က	4	Ŋ	(mg/kg)	DEC¹ (mg/kg)	
Arsenic (mg/l)	ND <0.1	ND <0.1	ND <0.01	ND <0.01	ND <0.01	10	10	0.5
Barium (mg/l)	ND <0.1	ND <0.1	ND <0.05	ND <0.05	ND <0.05	4,700	140,000	10.0
Cadmium (mg/l)	ND <0.1	ND <0.1	0.04	0.02	0.04	34	1,000	0.05
Chromium (total) (mg/l)	ND <0.1	ND <0.1	0.19	0.24	0.24	3,900²	51,000²	0.5
Lead (mg/l)	ND <0.1	ND <0.1	ND <0.02	ND <0.02	ND <0.02	500	1,000	0.15
Mercury (mg/l)	ND <0.01	ND <0.01	ND <0.001	ND <0.001	ND <0.001	20	610	0.02
Selenium (mg/l)	ND <0.1	ND <0.1	ND <0.01	ND <0.01	ND <0.01	340	10,000	0.5
Silver (mg/l)	0.13	0.14	ND <0.01	ND <0.01	ND <0.01	340	10,000	0.36

Sample Identification:

Excavated from the sludge cell by MacDermid personnel, January 1986. 182

Composite of drums generated May/June/July 1981. Composite of drums generated August/September 1981. Composite of drums generated October/November 1981.

ND = Not Detected.

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA),

DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

Associates,

Inc.

			SUMMARY OF	TABLE 3 GROUNDWATER RESUL MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	TABLE 3 IMARY OF GROUNDWATER RESULTS FOR AOC-A MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	OR AOC-A			
				Vell Designation	Well Designation and Sampling Date	Date		SWPC1	Industrial/
	Constituent		MW-101			MW-102			Commercial
		4/86	3/95	2/01	4/86	3/95	2/01	(11911)	VC³ (mg/l)
	Arsenic (mg/l)	NA	ND<0.005	ND<0.005	AN	ND<0.005	0,0062	0.004	None
	Barium (mg/l)	NA	0.016	0.15	AN	0.003	0.18	None	None
	Cadmium (mg/l)	NA	ND<0.004	ND<0.005	NA	ND<0.004	ND<0.005	900.0	None
	Chromium, Total (mg/l)	ND<0.05	S00.0>QN	ND<0.02	ND<0.05	ND<0.005	ND<0.02	1.22	None
	Copper (mg/l)	ND<0.05	0,060	0.01	ND<0.05	0:030	0.011	0.048	None
	Lead (mg/l)	ND<0.05	ND<0.003	ND<0.005	ND<0.05	ND<0.003	ND<0.05	0.013	None
	Mercury (mg/l)	NA	ND<0.0002	ND<0.0002	NA	ND<0.0002	ND<0.0002	0.0004	None
	Nickel (mg/l)	ND<0.02	ND<0.054	ND<0.02	ND<0.02	ND<0.054	ND<0.02	0.880	None
	Selenium (mg/I)	NA	ND<0.005	ND<0.005	N	ND<0.005	ND<0.005	0.050	None
	Silver (mg/l)	ND<0.01	0.011	ND<0.01	ND<0.01	ND<0.007	ND<0.01	0.012	None
	Zinc (mg/l)	ND<0.01	0.067	0.043	ND<0.01	ND<0.020	0.11	0.123	None
	Fluoride (mg/l)	0.58	0.10	ND<0.20	46.5	0.07	ND<0.20	None	None
	Cyanide (Total) (mg/l)	ND<0.1	0,13	ND<0.01	ND<0.1	ND<0.01	ND<0.01	0.052	None
	Cyanide (Amenable) (mg/l)	AA	ND<0.01	ND<0.01	Ϋ́	N A	ND<0.01	None	None
	Ammonia	ND<0.05	NA	NA	ND<0.05	NA	NA	None	None
	РН	6.7	N A	ΑN	6.4	NA	ΑΝ	None	None
	Acetone (mg/l)	ΑΝ	Q	0.014	V	Q	0.011	None	50
	Carbon Disulfide (mg/l)	N A	9	BDL	¥	2	NA	None	None
	Chlorobenzene (mg/l)	NA	Q	BDL	NA	Q	BDL	420	6.15
H	Chloroform (mg/l)	NA	QN	BDL	NA	QN	BDL	141	0.71
lh	Chloromethane (mg/l)	NA	ND	BDL	NA	ND	BDL	None	None
(1	2-Chlorotoluene (mg/l)	NA	P	BDL	Ν	2	BDL.	None	None
	1,2-Dichlorobenzene (mg/l)	NA	QN	BDL	NA	Q	BDL	170	50
	1,3-Dichlorobenzene (mg/l)	A	QN	BDL	NA	Q	BDL	26	50
	1,4-Dichlorobenzene (mg/l)	ΑΝ	QN	BDL	NA	QN	BDL	26	50

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		SUMMARY OF	TABLE 3 IMARY OF GROUNDWATER RESULTS FOR AOC-A MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	E 3 FER RESULTS iid, Inc. Ion Avenue ry, CT	FOR AOC-A			
		^	Well Designation and Sampling Date	n and Samplin	g Date		SWDC1	Industrial/
Constituent		MW-101			MW-102			Commercial
	4/86	3/95	2/01	4/86	3/95	2/01	(1119/11)	VC ³ (mg/l)
1,1-Dichloroethane (mg/l)	NA	QN	BDL	NA	QV	BDL	None	20
1,2-Dichloroethane (mg/l)	NA	QN	BDL	NA	QN	BDL	2.97	60.0
Cis-1,2-Dichloroethene (mg/l)	NA	ND	BDL	NA	QN	BDL	None	None
Ethyl Benzene (mg/l)	NA	ON	BDL	NA	QN	BDL	580	50
Methyl-tert-butyl-Ether (MTBE) (mg/l)	NA	QN	BDL	NA	QN	BDL	None	50
Methylene Chloride mg/l)	NA	ND	BDL	NA	ND	BDL	48	50
Naphthalene (mg/l)	NA	ND	BDL	NA	QN	BDL	None	None
Tetrachloroethene (mg/l)	ND<0.002	BMQL	BDL	ND<0.002	QN	BDL	0.088	3.82
Toluene (mg/l)	NA	QN	BDL	NA	QN	BDL	4,000	50
1,2,3-Trichlorobenzene (mg/l)	NA	QN	BDL	NA	QN	BDL	None	None
1,2,4-Trichlorobenzene (mg/l)	NA	QN	BDL	NA	QN	BDL	None	None
1,1,1-Trichloroethane (mg/l)	ND<0.002	QN	BDL	ND<0.002	ON	BDL	62	50
Trichloroethene (mg/l)	ND<0.002	QN	BDL	ND<0.002	ND	BDL	2.34	0.54
Trichlorofluoromethane (mg/l)	NA	QN	BDL	NA	QN	BDL	None	None
1,2,4-Trimethylbenzene (mg/l)	ΑΝ	Q	BDL	Ą	2	BDL	None	None
M&P-Xylenes (mg/l)	NA	Q	BDL	¥.	Q	BDL	None	50
O-Xylene (mg/I)	NA	Q	BDL	NA A	QN	BDL	None	50`
Vinyl Chloride (mg/l)	NA	ND	BDL	NA	ND	BDL	15.75	0.002
Legend:				Notes:				
-				~- :	Surface Water Protection Criteria for Substances in Groundwater,	otection Criteria f	or Substance	s in Groundwater,
BDL = Below Detection Limit	1,000			c	Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA	ons 22a-133k-1 th	ırough 22a-13	3k-3 of RCSA
Divice = Delow Metrico Cualititation Limit NO = Not Detected	IIII CIIIII			i က်	Volatilization Criteria for Grou	ria for Groundwa	iter, Appendix	Syvr C tot utvalent circumum. Volatilization Criteria for Groundwater, Appendix E, Sections 22a-
Bold/shaded results – Exceeded SWPC	eded SWPC				133k-1 through 22	133k-1 through 22a-133k-3 of RCSA		

TABLE 4	SUMMARY OF SOIL SAMPLING RESULTS FOR AOC-B
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526 Huntingdon Avenue MacDermid, Inc.

	Waterbury, CT	15,		
Constituent	Sample Number MW-103 (10'-12')	Residential DEC¹ (mg/kg)	Industrial / Commercial DEC¹ (mg/kg)	GB PMC³ (mg/l)
TCLP Arsenic (mg/l)	BDL	10	10	0.5
TCLP Barium (mg/l)	0.538	4,700	140,000	10.0
TCLP Cadmium (mg/l)	0.032	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0.017	3,900²	51,000²	0.5
TCLP Copper (mg/l)	8.15	2,500	76,000	13.0
TCLP Lead (mg/l)	0.100	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	20	610	0.2
TCLP Nickel (mg/l)	BDL	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	340	10,000	0.36
TCLP Zinc (mg/l	2.84	20,000	610,000	50.0
Volatile Organic Compounds	ND	Varies	Varies	Varies

Legend:

BDL = Below Detection Limit ND = Not Detected. All EPA Method 8260 VOCs, Detection Limits ranged from 5 µg/mg to 125 µg/mg.

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA).

DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

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	T, SUMMARY OF GROUND!	TABLE 5 MARY OF GROUNDWATER RESULTS FOR AOC-B		
	MacD 526 Hunti Wate	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT		
	Well Designation	and Sampling Date	·	
Constituent	WM	MW-103	SWPC¹ (mg/l)	moustrial/ commercial VC3 (mg/l)
	3/95	2/01		
Arsenic (mg/l)	ND<0.005	ND<0.005	0.004	None
Barium (mg/l)	0.036	0.26	None	None
Cadmium (mg/l)	ND<0.004	ND<0.005	900'0	None
Chromium, Total (mg/l)	0.005	ND<0.02	1.22	None
Copper (mg/l)	0.022	ND<0.01	0.048	None
Lead (mg/l)	£ 0.015	ND<0.005	0.013	None
Mercury (mg/l)	ND<0.0002	ND<0.0002	0.0004	None
Nickel (mg/l)	ND<0.054	ND<0.02	0.880	None
Selenium (mg/l)	ND<0.005	ND<0.005	0:020	None
Silver (mg/l)	0.032	ND<0.01	0.012	None
Zinc (mg/l)	ND<0.02	0.066	0.123	None
Fluoride (mg/l)	ND<0.04	ND<0.20	None	None
Cyanide (Total) (mg/l)	ND<0.01	ND<0.01	0.052	None
Cyanide (Amenable) (mg/l)	NA	ND<0.01	None	None
Ammonia	NA	NA	None	None
Hd	NA	NA	None	None
Acetone (mg/l)	QN	0.0094	None	50
Carbon Disulfide (mg/l)	QN	BDL	None	None
Chlorobenzene (mg/l)	ND	BDL	420	6.15
Chloroform (mg/l)	QN	BDL	141	0.71
Chloromethane (mg/l)	QN	BDL	None	None
■ 2-Chlorotoluene (mg/l)	QN	BDL	None	None
1,2-Dichlorobenzene (mg/l)	QN	BDL	170	20
1,3-Dichlorobenzene (mg/l)	QN	BDL	56	50
1,4-Dichlorobenzene (mg/l)	QN	BDL	26	50

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	SUMMARY OF GROUN	TABLE 5 MARY OF GROUNDWATER RESULTS FOR AOC-B		
	Mac 526 Hur Wa	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT		
	Well Designation	Well Designation and Sampling Date		
Constituent	M	MW-103	SWPC¹ (mg/l)	Industrial/ Commercial
	3/95	2/01		(IIII), 24
1,1-Dichloroethane (mg/l)	QN	BDL	None	50
1,2-Dichloroethane (mg/l)	QN	BDL	2.97	60:0
Cis-1,2-Dichloroethene (mg/l)	ND	BDL	None	None
Ethyl Benzene (mg/l)	QN	BDL	580	50
Methyl-tert-butyl-Ether (MTBE) (mg/l)	BMQL	BDL	None	20
Methylene Chloride mg/l)	QN	BDL	48	50
Naphthalene (mg/l)	ND	BDL	None	None
Tetrachloroethene (mg/l)	QN	BDL	0.088	3.82
Toluene (mg/l)	ND	BDL	4,000	50
1,2,3-Trichlorobenzene (mg/l)	ON	BDL	None	None
1,2,4-Trichlorobenzene (mg/l)	ND	BDL	None	None
1,1,1-Trichloroethane (mg/l)	QN	BDL	62	50
Trichloroethene (mg/l)	DN	BDL	2.34	0.54
Trichlorofluoromethane (mg/l)	ND	BDL	None	None
1,2,4-Trimethylbenzene (mg/l)	QN	BDL	None	None
M&P-Xylenes (mg/l)	QN	BDL	None	50
O-Xylene (mg/l)	QN	BDL	None	50,
Vinyl Chloride (mg/l)	ND	BDL	15.75	0.002
Legend:		Notes:		
NA = Not Analyzed			stection Criteria for Su	Surface Water Protection Criteria for Substances in Groundwater,
BDL = Below Detection Limit			Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA	22a-133k-3 of RCSA
BMQL = Below Method Quantitation Limit NO = Not Detacted	Limit	2. SWPC for trivalent chromium.	chromium.	CC cacitoro
Bold/shaded results – Exceeded SWPC	NPC		a 101 Gloundwater, A a-133k-3 of RCSA	Volanization Criteria for Groundwater, Appendix E, Sections 22a-133k-1 through 22a-133k-3 of RCSA

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SUMMARY OF SOIL SAMPLING RESULTS FOR ACC-D A
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TABLE 6

526 Huntingdon Avenue MacDermid, Inc.

	Waterbury, CT			
Constituent	Sample ID (sample depth) MW-105 (15'-17')	Residential DEC¹ (mg/kg)	Industrial / Commercial DEC¹ (mg/kg)	GB PMC ³ (mg/l)
TCLP Arsenic (mg/l)	BDL	10	10	0.5
TCLP Barium (mg/l)	0.313	4,700	140,000	10.0
TCLP Cadmium (mg/l)	BDL.	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0.057	3,900²	51,000²	0.5
TCLP Copper (mg/l)	BDL	2,500	76,000	13.0
TCLP Lead (mg/l)	0.028	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	20	610	0.2
TCLP Nickel (mg/l)	BDL	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	340	10,000	0.36
TCLP Zinc (mg/l)	0.134	20,000	610,000	50.0
Volatile Organic Compounds	ND	Varies	Varies	Varies

Legend:

BDL = Below Detection Limit ND = Not Detection Limits ranged from 5 µg/mg to 125 µg/mg.

Notes:

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Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA). DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

Associates,

Inc.

		Indust	رد. (mg/l)	None	None	None	None	None	None	None	None	None	None	None	None	None	None	50	None	6.15	0.71	None	None	50	50	50	50	000
		SWPC¹ (mg/l)		0.004	None	900.0	1.22	0.048	0.013	0.0004	0.880	0.050	0.012	0.123	None	0.052	None	None	None	420	141	None	None	170	26	26	None	2 0 7
C-D AND AOC F		MW-105		BDL	0.20	TOB	TOB	BDL	TO8	TOB	TOB	TOB	BDL	0.059	ND<0.20	ND<0.01	ND<0.01	0.007	NA	BDL	0.00074	BLD	BDL	BDL	BDL	BDL	BDL	2
TABLE 7 OF GROUNDWATER RESULTS FOR AOC-D AND AOC F MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	Well Designation and Sampling Date	WW	3/95	BDL	0.465	BDL	BDL	0.020	BLD	BDL	BDL	BDL	BDL	BDL	0.27	ND<0.01	NA	QN	QN	ON	BMQL	QN	QN	QN	ND	QN	QN	CZ
TA GROUNDWATER MacDe 526 Huntin Water	Well Designation	104	2/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	S.N
SUMMARY OF		MW-104	3/95	BDL	BDL	BDL	0.005	0.027	BDL	BDL	BDL	BDL	BDL	0.032	ND<0.04	0.13	ND<0.01	0.038	2	2	2	2	2	2	Q	9	9	S
		Constituent		Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium, Total (mg/l)	Copper (mg/l)	Lead (mg/l)	Mercury (mg/l)	Nickel (mg/l)	Selenium (mg/l)	Silver (mg/l)	Zinc (mg/l)	Fluoride (mg/l)	Cyanide (Total) (mg/l)	Cyanide (Amenable) (mg/l)	Acetone (mg/l)	Carbon Disulfide (mg/l)	Chlorobenzene (mg/l)	Chloroform (mg/l)	Chloromethane (mg/l)	2-Chlorotoluene (mg/l)	1,2-Dichlorobenzene (mg/l)	1,3-Dichlorobenzene (mg/l)	1,4-Dichlorobenzene (mg/l)	1,1-Dichloroethane (mg/l)	1.2-Dichloroethane (ma/l)

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	SUMMARY O	F GROUNDWATER	I ABLE / ER RESULTS FOF	I ABLE / SUMMARY OF GROUNDWATER RESULTS FOR AOC-D AND AOC F		
		526 Huntir Water	MacDenniu, Inc. 526 Huntingdon Avenue Waterbury, CT			
		Well Designation and Sampling Date	and Sampling [)ate		ladiotation / latitation hal
Constituent	WW	MW-104		MW-105	SWPC¹ (mg/l)	Industrial/ commercial
	3/95	2/01	3/95	2/01		(mgn) -ox
Cis-1,2-Dichloroethene (mg/l)	QN	SN	QN	BDF	None	None
Ethyl Benzene (mg/l)	ND	NS	QN	BDL	580	50
Methyl-tert-butyl-Ether (MTBE) (mg/l)	0.007	NS	QN	BDL	None	50
Methylene Chloride mg/l)	ND	NS	QN	0.0015	48	50
Naphthalene (mg/l)	ND	SN	QN	BDL	None	None
Tetrachloroethene (mg/l)	ND	NS	0.017	0.0082	0.088	3.82
Toluene (mg/l)	ND	SN	QN	BDL	4,000	50
1,2,3-Trichlorobenzene (mg/l)	ND	NS	QN	BDL	None	None
1,2,4-Trichlorobenzene (mg/l)	ND	NS	QN	BLD	None	None
1,1,1-Trichloroethane (mg/l)	ND	NS	BMQL	BDL	62	50
Trichloroethene (mg/l)	2	NS	QN	BDL	2.34	0.54
Trichlorofluoromethane (mg/l)	N Q	NS	0.011	0.0053	None	None
1,2,4-Trimethylbenzene (mg/l)	2	NS	QN	BDL	None	None
M&P-Xylenes (mg/l)	2	SN	QN	BDL	None	20
O-Xylene (mg/l)	R	NS	QN	BDL	None	50
Vinyl Chloride	ND	NS	QN	BDL	15.75	0.002
Legend:			Notes:			
NS = Not Sampled			- -	Surface Water Protec	tion Criteria for Su	Surface Water Protection Criteria for Substances in Groundwater,
NA = Not Analyzed				Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA	22a-133k-1 through	22a-133k-3 of RCSA
BDL = Below Detection Limit			2.	SWPC for trivalent chromium.	omium.	
BMQL = Below Method Quantitation Limit	n Limit		က်	Volatilization Criteria	or Groundwater, A	Volatilization Criteria for Groundwater, Appendix E, Sections 22a-
ND = Not Detected				133k-1 through 22a-133k-3 of RCSA	3k-3 of RCSA	
Bold/shaded results - Exceeded SWPC	SWPC					

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SUMMARY OF SOIL SAMPLING RESULTS FOR ACC-E

MacDermid, Inc. 526 Huntingdon Avenue

				Waterbury, CT			-	
Constituent		Sample	ple ID (sample depth)	epth)		Residential DEC¹ (mg/kg)	Industrial/ Commer- cial DEC¹ (mg/kg)	GB PMC³ (mg/l)
	MW-108	MW-109	MW-109	B-2	B-3			
	(10-12')	(0-2')	(25-27")	(10-12')	(2-7')			
TCLP Arsenic (mg/l)	BDL	BDL	BDL	BDL	BDL	10	10	0.5
TCLP Barium (mg/l)	0.785	0.439	0.323	0.655	0.341	4,700	140,000	10.0
TCLP Cadmium (mg/l)	0.015	0.013	BDL	0.018	0.011	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0,642	0.132	0.154	0.155	0.036	3,900²	51,000²	0.5
TCLP Copper (mg/l)	3.36	1.39	0.905	9.12	0.508	2,500	76,000	13.0
TCLP Lead (mg/l)	0.378	0.052	0.064	0.194	0.056	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	BDL	BDL	BDL	BDL	20	610	0.2
TCLP Nickel (mg/l)	0.817	0.142	BDL	1.71	BDL	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	BDL	BDL	BDL	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	BDL	BDL	BDL	BDL	340	10,000	0.36
TCLP Zinc (mg/l)	3.29	0.456	0.198	1.82	0.215	000'02	610,000	50.0
Volatile Organic Compounds	NO	ND	ND	ND	QN	Varies	Varies	Varies

Legend:

BDL = Below Detection Limit
ND = Not Detected. All EPA Method 8260 VOCs, Detection Limits ranged from 5 µg/mg to 125 µg/mg.

Bold/shaded results – Exceeded GB PMC

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA). DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

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				TARIFO						
		SUMMAR	Y OF GRO	UNDWATER RE	SUMMARY OF GROUNDWATER RESULTS FOR AOC-E	FOR AOC-E				
			526	526 Huntingdon Avenue Waterbury, CT	Avenue					
			Well [Designation	Well Designation and Sampling Date	ng Date			יסטאים	Industrial/
Constituent	MW-106	MW-107	MΜ	MW-108	WW	MW-109	WW	MW-110	OWPC /	Commercial
	3/95	3/95	3/95	2/01	3/95	2/01	3/62	2/01	(1.611)	VC ³ (mg/l)
Arsenic (mg/l)	0.069	0.036	0.059	<u>BD</u> ,	BDL	ם	0.058	BDL	0.004	None
Barium (mg/l)	0.020	90.0	0.015	0.16	0.037	0.20	0.021	0.15	None	None
Cadmium (mg/l)	0.014	BDL	0.032	BDL	BDL	BD	0.037	0,083	900.0	None
Chromium, Total (mg/l)	0.200	0.014	0.914	0.026	0.007	BDL	0.500	0.086	1.22	None
Copper (mg/l)	162	8,68	239	4.1	1.14	3.7	146	13	0.048	None
Lead (mg/l)	0.055	0.013	0.014	BDL	BDL	BDL	0.016	BDL	0.013	None
Mercury (mg/l)	0.0015	0.0011	0.0005	BDL	BDL	0.0081	0.0012	0.001	0.0004	None
Nickel (mg/l)	0.412	0.342	1.14	0.85	0.408	0.74	0.846	1.5	0.880	None
Selenium (mg/l)	0.094	0.056	950'0	BDL	0.01	BDL	BDL	BDL	0.050	None
Silver (mg/l)	0.055	0.010	0.026	BDL	0,026	BDľ.	0.028	0.043	0.012	None
Zinc (mg/l)	7.75	0.026	16.5	0.064	BDL	0.082	6.26	2.9	0.123	None
Flucride (mg/l)	10.0	4.1	6.4	0.66	1.50	0.68	8.4	09.0	None	None
Cyanide (Total) (mg/l)	70.0	0.35	0.28	0.064	2	0.063	0.60	0.012	0.052	None
Cyanide (Amenable) (mg/l)	Q	2	Q	0.012	NA	BDL	0.1	BDL	None	None
Acetone (mg/l)	0.14	0.11	0.18	0.23	9	0.21	0.14	0.045	None	50
Carbon Disulfide (mg/l)	BMQL	9	0.0022	WA	2	¥	BMQL	¥	None	None
Chlorobenzene (mg/l)	BMQL	2	0.003	0.00059	0.012	0.0007	0.003	BDL	420	6.15
Chloroform (mg/l)	0.0032	0.0041	0.0034	0.00092	BMQL	0.001	0.0055	0.0057	141	0.71
Chloromethane (mg/l)	0.0042	0.0052	0.0065	BDL	2	BDL	0.005	0.00088	None	None
2-Chlorotoluene (mg/l)	Q	0.002	BMQL	0.00074	9	0.0008	BMQL	BDL	None	None
1,2-Dichlorobenzene (mg/l)	0.0075	0.003	0.086	0.055	0.057	0.0058	0.011	0.00053	170	50
1,3-Dichlorobenzene (mg/l)	BMQL	BMQL	0.0025	BDL	0.0013	0.001	BMQL	BDL	26	50
1,4-Dichlorobenzene (mg/l)	0.0021	0.0011	0.0012	0.00091	0.010	BD	0.0028	BDL	56	50
1,1-Dichloroethane (mg/l)	2	9	BMQL	BDL	0.0038	0.001	0.0012	BDL	None	50
1,2-Dichloroethane (mg/l)	QN	0.002	0.0015	0.0057	2	0.0065	0.0012	0.0014	2.97	0.09
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					TABLE 9						
			SUMMAR	Y OF GRO 1 526 I	GROUNDWATER RESUL MacDermid, Inc. 526 Huntingdon Avenue Waterbury. CT	RESULTS Inc. Avenue	MARY OF GROUNDWATER RESULTS FOR AOC-E MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT				
				Well [Well Designation and Sampling Date	and Sampli	ng Date			200,410	Industrial/
	Constituent	MW-106	MW-107	WW	MW-108	MW	MW-109	MM	MW-110	SWPC)	Commercial
		3/95	3/95	3/95	2/01	3/95	2/01	3/95	2/01	(1/Bill)	VC ³ (mg/l)
	Cis-1,2-Dichloroethene (mg/l)	ND	0.0011	BMQL	BDL	0.0016	TOB	BMOL	BDL	None	None
	Ethyl Benzene (mg/l)	2	2	R	BDL	BMQL	BDL	QN	BDL	280	20
	Methyl-tert-butyl-Ether (MTBE) (mg/l)	9	BMQL	0.0024	BDL	0.0018	BDL	0.0044	BDL	None	20
	Methylene Chloride mg/l)	0.0057	0.038	0.0084	0.00099	QN	0.001	0.0085	BDL	48	20
	Naphthalene (mg/l)	0.001	2	0.0021	0.00056	0.0024	0.0006	QN	BDL	None	None
	Tetrachloroethene (mg/l)	0.002	0.0015	0.0039	0.0047	0.0093	0.0046	0.012	BDL	0.088	3.82
	Toluene (mg/l)	Q.	0.001	BMQL	BOL	BMQL	BDL	0.0012	0.093	4,000	20
	1,2,3-Trichlorobenzene (mg/l)	0.0029	0.0049	0.0014	BDL	ON	BDL	BMOL	BDL	None	None
	1,2,4-Trichlorobenzene (mg/l)	0.016	0.0018	0.017	0.033	0.0039	0.031	0.014	0.005	None	None
	1,1,1-Trichloroethane (mg/l)	9	9	BMQL	0.00055	0.004	0.0006	BMQL	69000.0	62	20
	Trichloroethene (mg/l)	BMQL	0.0033	BMQL	BDL	0.001	BDL	BMQL	BDL	2.34	0.54
	Trichlorofluoromethane (mg/l)	Q	9	Q	BDL	QN	BDL	QN	8DF	None	None
	1,2,4-Trimethylbenzene (mg/l)	BMQL	9	BMOL	8DF	BMQL	BDL	QN	BDL	None	None
	M&P-Xylenes (mg/l)	BMQL	9	BMQL	<u>8</u>	0.002	BDL	BMQL	BDL	None	20
	O-Xylene (mg/l)	2	9	2	BDL	0.0023	BDL	2	BDL	None	20
	Vinyl Chloride	ND	N N	Q	BDL	Q	BDL	QN	BDL	15.75	0.002
	Legend:				S	Notes:					
	NA = Not Analyzed						urface Water	Protection	Criteria for \$	Substances in	Surface Water Protection Criteria for Substances in Groundwater,
F	BDL = Below Detection Limit BMOL = Below Mothod Organization Limit	fimi Lacitot					Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA	ections 22a-1	133k-1 throug	h 22a-133k-3	of RCSA
I	ND = Not Defected	נמווסו ביוווון				, c.	Volatilization Criteria for Gr	rein cindina Triteria for G	III. Sroundwater	Annondiv E	SWESTION UTWARFILL CHICHINGTH. Volatilization Criteria for Groundwater Appendix E. Sections 223.
RP	Bold/shaded results - Exceeded SWPC	led SWPC			÷		33k-1 through 22a-133k-3 of RCSA	22a-133k-3	of RCSA	Appended L,	060110113 228-
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Associates, Inc.

			SUMMA	I RY of tes	TABLE 10 SUMMARY OF TEST PIT RESULTS FOR AOC-G	TS FOR AOC	ပု	-	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
				Mac 526 Hun Wa	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT	enu				
Constituent			Test	Test Pit Number (depth)	(depth)	5861		Residential DEC ²	Industrial/ Commercial DEC ²	GB PMC4
	TP-1 (12-13.5')	TP-2 (2')	TP-2 (9'-11')	TP-3 (6'-8')	TP-4 (4')	TP-4 (7'-8')	TP-5 (8-11')	(mg/kg)	(mg/kg)	(I/gm)
Arsenic (mg/l)1	NA	ND<0.1	NA	NA	ND<0.1	NA	NA	10	10	0.5
Barium (mg/l) 1	NA	1.30	NA	NA	ND<0.1	NA	NA	4,700	140,000	10.0
Cadmium (mg/l) 1	NA	0.08	NA	NA	90'0	NA	NA	34	1,000	0.05
Chromium (total) (mg/l) 1	NA	0.055	NA	NA	ND<0.1	NA	NA	3,900³	51,0003	0.5
Lead (mg/l) 1	NA	96'9	NA	NA	ND<0.1	NA	NA	500	1,000	0.15
Mercury (mg/l) 1	NA	ND<0.1	NA	NA	ND<0.1	NA	NA	20	610	0.02
Selenium (mg/l) 1	NA	ND<0.1	NA	NA	ND<0.1	NA	NA	340	10,000	0.5
Silver (mg/l) 1	NA	ND<0.1	NA	NA	ND<0.1	NA	NA	340	10,000	0.36
Copper (mg/l) 1	NA	6.15	NA	NA	0.138	NA	NA	2,500	76,000	13.0
Nickel (mg/l) 1	NA	6.67	NA	NA	0.576	NA	NA	1,400	7,500	1.0
Tin (mg/l) 1	NA	ND<0.1	NA	NA	ND<0.1	NA	NA	None	None	None
Zinc (mg/l) 1	NA	5.69	NA	NA	0.239	NA	NA	20,000	610,000	50.0
PCBs (mg/kg)	Q	Q	ND	ND	ND	ND	QN	1	10	0.005
Aromatics (mg/kg)	Ð	Q	QN	ON	QN	ND	QN	Varies	Varies	Varies
Halogenated Organics (mg/kg)	Q	ND	ND	QN	ND	ND	0.0135	12	110	
NA = Not Analyzed	NO = Not Defected	Defected	Bold	Rold/Shadad recults		Exceeded SMDC				

ND = Not Detected. EP Toxicity Testing Results

Boid/Shaded results - Exceeded SWPC

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA).

DEC standard for trivalent chromium.

Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA. Mass concentration for tetrachloroethylene. The remaining halogenated solvents were below laboratory detection limits.

HA = Not Analyzed.

Legend: 1. EP
2. Dire.
3. DEC

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SUMMARY OF SOIL SAMPLING RESULTS FOR AOC-G

526 Huntingdon Avenue Waterbury CT MacDermid, Inc.

	Water Dury, C.			
Constituent	Sample ID (sample depth) MW-111 (0.5'-2.5')	Residential DEC¹ (mg/kg)	Industrial / Commercial DEC¹ (mg/kg)	GB PMC³ (mg/l)
TCLP Arsenic (mg/l)	BDL	10	10	0.5
TCLP Barium (mg/l)	0.324	4,700	140,000	10.0
TCLP Cadmium (mg/l)	BDL	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0.026	3,900²	51,000²	0.5
TCLP Copper (mg/l)	0.149	2,500	76,000	13.0
TCLP Lead (mg/l)	0.196	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	20	610	0.2
TCLP Nickel (mg/l)	BDL	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	340	10,000	0.36
TCLP Zinc (mg/l)	0.131	20,000	610,000	50.0
Volatile Organic Compounds	ND	Varies	Varies	Varies

Legend:

BDL = Below Detection Limit

ND = Not Detected. All EPA Method 8260 VOCs, Detection Limits ranged from 5 µg/mg to 125 µg/mg. **Bold/shaded** results – Exceeded SWPC

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA). DEC standard for trivalent chromium. 4. 2. 6.

Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

	SUMMARY OF GRO	TABLE 12 MARY OF GROUNDWATER RESULTS FOR AOC-G		
	526	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT		
	Well Designa	Well Designation and Sampling Date		Industrial/ Commonial
Constituent		MW-111	SWPC¹ (mg/l)	VC3 (ma/l)
	3/95	2/01		
Arsenic (mg/l)	ND<0.005	ND<0.005	0.004	None
Barium (mg/l)	0.067	0.42	None	None
Cadmium (mg/l)	ND<0.004	ND<0.005	900.0	None
Chromium, Total (mg/l)	0.005	ND<0.02	1.22	None
Copper (mg/l)	ND<0.020	0.014	0.048	None
Lead (mg/l)	ND<0.003	ND<0.005	0.013	None
Mercury (mg/l)	ND<0.0002	ND<0.0002	0.0004	None
Nickel (mg/l)	ND<0.054	ND<0.02	088'0	None
Selenium (mg/l)	ND<0.005	ND<0.005	0.050	None
Silver (mg/l)	ND<0.007	ND<0.01	0.012	None
Zinc (mg/l)	ND<0.02	0.15	0.123	None
Fluoride (mg/l)	0.04	ND<0.20	None	None
Cyanide (Total) (mg/l)	ND<0.01	ND<0.01	0.052	None
Cyanide (Amenable) (mg/l)	ΑΝ	ND<0.01	None	None
Ammonia	AN	۸N	None	None
Hd	NA	NA	None	None
Acetone (mg/l)	QN	0.011	None	50
Carbon Disulfide (mg/l)	ON	BDL	None	None
Chlorobenzene (mg/l)	QN	BDL	420	6.15
Chloroform (mg/l)	QN	BDL	141	0.71
Chloromethane (mg/l)	QN	BDL	None	None
2-Chlorotoluene (mg/l)	ON	BDL	None	None
1,2-Dichlorobenzene (mg/l)	QN	BDL	170	50
1,3-Dichlorobenzene (mg/l)	QN	BDL	26	20
1,4-Dichlorobenzene (mg/l)	ND	BDL	76	20

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SUMMARY OF GROUNDWATER RESULTS FOR AOC-G SEPHING				TABLE 42		
MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT			SUMMARY OF GROUN	IDWATER RESULTS FOR AOC-G		
Constituent Well Designation and Sampling Da 3/95 2 Poroethane (mg/l) 0.074 0.074 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.00 <td></td> <td></td> <td>Ma 526 Hu W</td> <td>icDermid, Inc. Intingdon Avenue aterbury, CT</td> <td></td> <td></td>			Ma 526 Hu W	icDermid, Inc. Intingdon Avenue aterbury, CT		
Constituent 3/95 2 gloroethane (mg/l) 0.074 0.004 loroethane (mg/l) 0.004 0.00 Dichloroethene (mg/l) ND BMQL nzene (mg/l) ND BB ne Chloride mg/l) ND BB ene (mg/l) ND BB chlorobenzene (mg/l) ND BB chloroethane (mg/l) ND BB methylbenzene (mg/l) ND BB methylbenzene (mg/l) ND BB methylbenzene (mg/l) ND BB methylbenzene (m			Well Designation	on and Sampling Date		
3/95 2		Constituent		MW-111	SWPC¹ (mg/l)	
Decethane (mg/l)			3/95	2/01		(111911)
Dichloroethane (mg/l)		1,1-Dichloroethane (mg/l)	0.074	0.042	None	50
Dichloroethene (mg/l) BMQL 0.0 nzene (mg/l) ND B art-butyl-Ether (MTBE) (mg/l) ND B ne Chloride mg/l) ND B ncoethene (mg/l) ND B chlorobenzene (mg/l) ND B nloroethane (mg/l) ND ND nloroethane (mg/l) ND ND nloreers (mg/l) ND A nloreers (mg/l) ND A nloreers (mg/l) ND </td <td></td> <td>1,2-Dichloroethane (mg/l)</td> <td>0.004</td> <td>0.017</td> <td>2.97</td> <td>0.09</td>		1,2-Dichloroethane (mg/l)	0.004	0.017	2.97	0.09
nzene (mg/l) ND B art-butyl-Ether (MTBE) (mg/l) ND B ne Chloride mg/l) ND B lene (mg/l) 0.006 0.0 chorethene (mg/l) ND B chorobenzene (mg/l) ND B chlorobenzene (mg/l) ND B fluoromethane (mg/l) ND ND fluoromethane (mg/l) ND A fluoromethane (mg/l) ND A floride (mg/l) </td <td></td> <td>Cis-1,2-Dichloroethene (mg/l)</td> <td>BMQL</td> <td>0.0012</td> <td>None</td> <td>None</td>		Cis-1,2-Dichloroethene (mg/l)	BMQL	0.0012	None	None
Part-butyl-Ether (MTBE) (mg/l)		Ethyl Benzene (mg/l)	ON	BDL	580	20
Particular mg/l)		Methyl-tert-butyl-Ether (MTBE) (mg/l)	ND	BDL	None	09
Eme (mg/l)		Methylene Chloride mg/l)	ND	BDL	48	20
(mg/l) 0.006 0.0 (mg/l) ND B chlorobenzene (mg/l) ND B methylbenzene (mg/l) ND B methylbenzene (mg/l) ND B eimes (mg/l) ND ND eimes (mg/l) ND ND eimes (mg/l) ND ND eimes (mg/l) ND A BDL = Below Detected A A BOId/shaded results - Exceeded SWPC B		Naphthalene (mg/l)	QN	BDL	None	None
(mg/l) ND B chlorobenzene (mg/l) ND B chlorobenzene (mg/l) ND B chlorobenzene (mg/l) 0.0042 0.0 ethene (mg/l) BMQL 0.0 ethene (mg/l) ND B methylbenzene (mg/l) ND B enes (mg/l) ND B lenes (mg/l) ND B e (mg/l) ND B loride (mg/l) ND ND BDL = Below Detection Limit A A BMQL = Below Method Quantitation Limit 5. ND = Not Detected SWPC 5. Bold/shaded results - Exceeded SWPC 6.		Tetrachloroethene (mg/l)	0.006	0.0094	0.088	3.82
chlorobenzene (mg/l) ND B chlorobenzene (mg/l) ND B chlorobenzene (mg/l) ND B chloroethane (mg/l) ND B fluoromethane (mg/l) ND B fluoromethane (mg/l) ND B methylbenzene (mg/l) ND B lenes (mg/l) ND B e (mg/l) ND ND loride (mg/l) ND Notes: NA = Not Analyzed 4. BMQL = Below Detection Limit A BMQL = Below Method Quantitation Limit 5. ND = Not Detected 6. Bold/shaded results - Exceeded SWPC 6.		Toluene (mg/l)	ND	BDL	4,000	20
chlorobenzene (mg/l) ND B chlorobenzene (mg/l) 0.0042 0.0 chloroethane (mg/l) BMQL 0.0 fluoromethane (mg/l) ND B methylbenzene (mg/l) ND B enes (mg/l) ND B enes (mg/l) ND B enes (mg/l) ND A enes (mg/l) ND A e (mg/l) ND A boride (mg/l) ND A NA = Not Analyzed A A BMQL = Below Method Quantitation Limit A A BMQL = Below Method Quantitation Limit 5. Bold/shaded results - Exceeded SWPC 6.		1,2,3-Trichlorobenzene (mg/l)	ND	BDL	None	None
chloroethane (mg/l) 0.0042 0.0 ethene (mg/l) BMQL 0.0 fluoromethane (mg/l) ND B methylbenzene (mg/l) ND B e (mg/l) ND B e (mg/l) ND B b (mg/l) ND ND NA = Not Analyzed A 4 BMQL = Below Detection Limit ND = Not Detected 5 ND = Not Detected 6 6 Bold/shaded results - Exceeded SWPC 6		1,2,4-Trichlorobenzene (mg/l)	QN	BDL	None	None
ethene (mg/l) BMQL 0.0 fluoromethane (mg/l) ND B methylbenzene (mg/l) ND B lenes (mg/l) ND B e (mg/l) ND B loride (mg/l) ND 0.0 loride (mg/l) ND 4. BDL = Below Detection Limit 4. BMQL = Below Method Quantitation Limit 5. ND = Not Detected 6. Bold/shaded results - Exceeded SWPC 6.		1,1,1-Trichloroethane (mg/l)	0.0042	0.0019	62	09
## Industrial Parameter (mg/l)		Trichloroethene (mg/l)	BMQL	0.00084	2.34	0.54
methylbenzene (mg/l) ND B lenes (mg/l) ND B e (mg/l) ND B loride (mg/l) ND 0.0 loride (mg/l) ND 0.0 NA = Not Analyzed 4. BDL = Below Detection Limit 4. BMQL = Below Method Quantitation Limit 5. ND = Not Detected 6. Bold/shaded results - Exceeded SWPC 6.		Trichlorofluoromethane (mg/l)	QN	BDL	None	None
Enes (mg/l)		1,2,4-Trimethylbenzene (mg/l)	QN	BDL	None	None
e (mg/l) ND B loride (mg/l) ND 0.0 NA = Not Analyzed A. 4. BDL = Below Detection Limit 4. BMQL = Below Method Quantitation Limit 5. ND = Not Detected 6. Bold/shaded results - Exceeded SWPC 6.		M&P-Xylenes (mg/l)	QN	BDL	None	50
loride (mg/l) Notes: NA = Not Analyzed BDL = Below Detection Limit BMQL = Below Method Quantitation Limit ND = Not Detected Bold/shaded results - Exceeded SWPC		O-Xylene (mg/l)	QN	BDL	None	50,
NA = Not Analyzed BDL = Below Detection Limit BMQL = Below Method Quantitation Limit ND = Not Detected Bold/shaded results – Exceeded SWPC		Vinyl Chloride (mg/l)	ND	0.00075	15.75	0.002
.5. 6	H			Notes:		
. O	H				ection Criteria for Su	bstances in Groundwater,
	R F	BDL = Below Detection Limit BMOI = Below Method Oughtistion	: <u>:</u>		is 22a-133k-1 through 2	22a-133k-3 of RCSA
		ND = Not Detected			a for Groundwater, A	ppendix E, Sections 22a-
		Danisinaden lesmis – Exceened S	VP.C	ISSK-TUTTOUGH ZZA-	133K-3 01 RC3A	

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TABLE 13 SUMMARY OF SOIL SAMPLING RESULTS FOR AOC-H
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526 Huntingdon Avenue MacDermid, Inc.

	Waterbury, CT	CT.		
Constituent	Sample Number MW-112 (0.5'-2.5')	Residential DEC¹ (mg/kg)	Industrial / Commer- cial DEC¹ (mg/kg)	GB PMC³ (mg/l)
TCLP Arsenic (mg/l)	BDL	10	10	0.5
TCLP Barium (mg/l)	0.714	4,700	140,000	10.0
TCLP Cadmium (mg/l)	BDL	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0.038	3,900²	51,000²	0.5
TCLP Copper (mg/l)	1.04	2,500	000'92	13.0
TCLP Lead (mg/l)	1.08	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	120	610	0.2
TCLP Nickel (mg/l)	0.052	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	340	10,000	0.36
TCLP Zinc (mg/l	0.351	20,000	610,000	50.0
Acetone (mg/kg)4	0.170	200	1,000	140.0
Cis-1,2-Dichloroethene (mg/kg)4	0.087	200	1,000	14.05
Vinyl Chloride (mg/kg) ⁴	0.027	0.32	3.0	0.405

Legend: BDL = Below Detection Limit

Bold/shaded results - Exceeded SWPC

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA).

DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

All other EPA Method 8260 VOCs were below laboratory detection limits, Detection Limits ranged from 5 µg/mg to 125 µg/mg. Units are in mg/kg.

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			1 1 1 1 1 1		
		SUMMARY OF GR	MMARY OF GROUNDWATER RESULTS FOR AOC-H MacDermid Inc	OR AOC-H	
		526	526 Huntingdon Avenue Waterbury, CT		
	Constituent	Well Designation a	Designation and Sampling Date	SWPC1 (mg/l)	Industrial/ Commercial VC ³ (mg/l)
		MW-112	112		
	Arsenic (mg/l)	BDL	NS	0.004	None
	Barium (mg/l)	BDL	BDL	None	None
	Cadmium (mg/l)	0.045	0.027	900'0	None
	Chromium, Total (mg/l)	0.029	BDL	1.22	None
	Copper (mg/l)	0.026	BDL	0.048	None
	Lead (mg/l)	BDL	BDL	0.013	None
	Mercury (mg/l)	BDL	BDL	0.0004	None
	Nickel (mg/l)	0.013	BDL	0.880	None
	Selenium (mg/l)	BDL	BDL	0.050	None
	Silver (mg/l)	BDL	BDL	0.012	None
-	Zinc (mg/l)	BDL	0.16	0.123	None
	Fluoride (mg/l)	ND<0.04	0.20	None	None
	Cyanide (Total) (mg/l)	ND<0.01	BDL	0.052	None
	Cyanide (Amenable) (mg/l)	NA	BDL	None	None
	Acetone (mg/l)	QN	BDL	None	50
	Carbon Disulfide (mg/l)	Q	BDL	None	None
	Chlorobenzene (mg/l)	N	80.	420	6.15
	Chloroform (mg/l)	Q	BDL	141	0.71
	Chloromethane (mg/l)	QN	BDI	None	None
H	2-Chlorotoluene (mg/l)	Q	BDL	None	None
R	1,2-Dichlorobenzene (mg/l)	ND	BOL	170	50
P	1,3-Dichlorobenzene (mg/l)	Q	BDL	26	50
	1,4-Dichlorobenzene (mg/l)	QN	BDL	26	50
	1,1-Dichloroethane (mg/l)	ND	BDL	None	50
	1,2-Dichloroethane (mg/l)	QN .	BDL	2.97	0.09
	Cis-1,2-Dichloroethene (mg/l)	0.0028	BDL	None	None

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Associates, Inc.

			14017		
		SUMMARY OF GRO	IMMARY OF GROUNDWATER RESULTS FOR AOC-H MacDermid, Inc.	S FOR AOC-H	-
		526	526 Huntingdon Avenue Waterbury, CT		
	Constituent	Well Designation and Sampling Date	nd Sampling Date	SWPC¹ (mg/l)	Industrial/ Commercial VC ³ (mg/l)
		MW-112	112		
		3/95	2/01		
	Ethyl Benzene (mg/l)	QN	TOB	580	50
	Methyl-tert-butyl-Ether (MTBE) (mg/l)	QN	BDL	None	50
	Methylene Chloride mg/l)	QN	BDL	48	50
	Naphthalene (mg/l)	QN	BDL	None	None
	Tetrachloroethene (mg/l)	Q	0.003	0.088	3.82
	Toluene (mg/l)	QV	BDL	4,000	50
	1,2,3-Trichlorobenzene (mg/l)	ND	BDL	None	None
	1,2,4-Trichlorobenzene (mg/l)	QN	BDL	None	None
	1,1,1-Trichloroethane (mg/l)	QN	BDL	62	50
	Trichloroethene (mg/l)	0.0018	0.00081	2.34	0.54
	Trichlorofluoromethane (mg/l)	N	BDL	None	None
	1,2,4-Trimethylbenzene (mg/l)	QN	BDL	None	None
	M&P-Xylenes (mg/l)	QN	BDL	None	50
	O-Xylene (mg/l)	QN	BDL	None	50
	Vinyl Chloride	QN	BDL	15.75	0.002
	Legend:		Notes:		
			4	Surface Water Protection (Surface Water Protection Criteria for Substances in Groundwater,
	NA = Not Analyzed			Appendix D, Sections 22a-	Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA
	BDL = Below Detection Limit		ည်	SWPC for trivalent chromium.	m.
11	BMQL = Below Method Quantitation L	-imit	Ġ.	Volatilization Criteria for Groundwate	Volatilization Criteria for Groundwater, Appendix E, Sections 22a- 133k-1 through 22a-133k-3 of RCSA
C I	Bold/shaded results - Exceeded SWPC	PC			
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TABLE 15	SUMMARY OF 1987 SOIL SAMPLING RESULTS FOR INK SPILL AREA (AOC-I)
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526 Huntingdon Avenue MacDermid, Inc.

				Waterbury, CI	_			
		Sam	iple ID (sample depth)	e depth)		feitaobiso	Inductrial/ Commor	
Constituent	-	2	3	4	5	DEC1 (ma/kg)	oial DEC1 (ma/l/m)	GB PMC ³ (mg/l)
	(2.5')	(1.5-2.5')	(2.5'-3.0')	(unknown')	(unknown)		CIAI DEC. (IIIg/Rg)	· ,
EP Tox. Arsenic (mg/l)	ND<0.01	ND<0.01	ND<0.01	۷N	NA	10	10	0.5
EP Tox. Barium (mg/l)	0.21	0.40	0.20	NA	NA	4,700	140,000	10.0
EP Tox. Cadmium (mg/l)	ND<0.01	ND<0.01	ND<0.01	NA	NA	34	1,000	0.05
EP Tox. Chromium (total) (mg/l)	ND<0.05	ND<0.05	ND<0.05	NA	NA	3,900²	51,000²	0.5
EP Tox. Lead (mg/l)	ND<0.05	0.10	ND<0.05	NA	NA	200	1,000	0.15
EP Tox. Mercury (mg/l)	ND<0.001	ND<0.001	ND<0.001	NA	NA	20	610	0.2
EP Tox. Selenium (mg/l)	ND<0.01	ND<0.01	ND<0.01	NA	NA	340	10,000	0.5
EP Tox. Silver (mg/l)	ND<0.01	ND<0.01	ND<0.01	NA	NA	340	10,000	0.36
Total Cyanide (mg/l)	ND<0.1	ND<0.1	ND<0.01	NA	NA	1,400	41,000	2.04
Benzene (mg/kg)	ND<0.005	14.76	ND<0.005	0.046	ND<0.005	12	200	0.25
Ethyl Benzene (mg/kg)	ND<0.005	2.91	ND<0.005	ND<0.005	ND<0.005	200	1,000	10.15
Tetrachloroethylene (mg/kg)	ND<0.015	0.70	ND<0.015	ND<0.015	ND<0.015	12	110	1.05
Toluene (mg/kg)	ND<0.005	62.97	ND<0.005	ND<0.005	ND<0.005	200	1,000	67.05
1,1,1-Trichloroethylene (mg/kg)	ND<0.015	5.0	ND<0.015	0.042	ND<0.005	200	1,000	40.05
Xylenes (mg/kg)	ND<0.005	11.45	ND<0.005	ND<0.005	ND<0.005	500	1,000	19.55
Legend: BDL = Below Detection Limit. NA = Not Analyzed	Limit. NA = N	lot Analyzed.	ND = Not De	lected. All EPA	Method 8260 VC	Cs, Detection Limits	ND = Not Detected. All EPA Method 8260 VOCs, Detection Limits ranged from 5 µg/mg to 125 µg/mg.	125 µg/mg.

Notes:

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA).

Sample 4: Collected from eastern side wall of excavation. Sample 5: Collected from western side wall of excavation.

DEC standard for trivalent chromium.

Sample 1: Collected beneath ink/soil layer (prior to excavation). Sample 2: Collected in ink/soil layer (prior to excavation). Sample 3: Collected from bottom of excavation.

Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

By SPLP only. Units are in mg/kg.

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Associates.

		SUMMARY OF GROUNDWA	TABLE 16 OF GROUNDWATER RESULTS FOR AOCS-I, J, K, AND L		
		Ma 526 Hu M	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT		
		Well Designation	Well Designation and Sampling Date		
	Constituent		MW-113	SWPC¹ (mg/l)	Industrial/ Commercial VC ³ (mg/l)
_		3/95	2/01		
	Arsenic (mg/l)	ND<0.005	ND<0.005	0.004	None
	Barium (mg/l)	0.089	0.44	None	None
	Cadmium (mg/l)	ND<0.004	ND<0.005	900.0	None
	Chromium, Total (mg/l)	ND<0.005	ND<0.02	1.2^{2}	None
	Copper (mg/l)	ND<0.022	ND<0.01	0.048	None
	Lead (mg/l)	ND<0.003	ND<0.005	0.013	None
	Mercury (mg/l)	ND<0.0002	ND<0.0002	0.0004	None
	Nickel (mg/l)	ND<0.054	ND<0.02	0.880	None
	Selenium (mg/l)	0.006	ND<0.005	0:020	None
	Silver (mg/l)	ND<0.007	ND<0.01	0.012	None
	Zinc (mg/l)	ND<0.02	0.16	0.123	None
	Fluoride (mg/l)	ND<0.04	ND<0.20	None	None
4	Cyanide (Total) (mg/l)	ND<0.01	ND<0.01	0.052	None
	Cyanide (Amenable) (mg/l)	NA	ND<0.01	None	None
	Ammonia	Ϋ́	NA	None	None
	Нd	NA	NA	None	None
	Acetone (mg/l)	QN	0.014	None	50
1	Carbon Disulfide (mg/l)	ND	BDL	None	None
F	Chlorobenzene (mg/l)	ND	BDL	420	6.15
IJ	Chloroform (mg/l)	ND	BDL	141	0.71
?	Chloromethane (mg/l)	ND	BDL	None	None
P	2-Chlorotoluene (mg/l)	ND	BDL	None	None
	1,2-Dichlorobenzene (mg/l)	ND	BDL	170	50
	1,3-Dichlorobenzene (mg/l)	ND	BDL	56	50
	1,4-Dichlorobenzene (mg/l)	ND	BDL	56	50

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Associates, Inc.

		T. SUMMARY OF GROUNDWATE	TABLE 16 OF GROUNDWATER RESULTS FOR AOCS-I, J, K, AND L	NDL	
		Macl 526 Hunt Wat	MacDermid, Inc. 526 Huntingdon Avenue Waterbury, CT		
		Well Designation	Well Designation and Sampling Date		1-
	Constituent	W	MW-113	SWPC¹ (mg/l)	Industrial/ Commercial VC3 (mg/l)
		3/95	2/01		(
	1,1-Dichloroethane (mg/l)	QN	BDL	None	50
	1,2-Dichloroethane (mg/l)	ND	BDL	2.97	0.09
_	Cis-1,2-Dichloroethene (mg/l)	ND	BDL	None	None
	Ethyl Benzene (mg/l)	ND	BDL .	580	50
	Methyl-tert-butyl-Ether (MTBE) (mg/l)	ND	BDL	None	50
	Methylene Chloride mg/l)	ND	BDL	48	50
	Naphthalene (mg/l)	ON	BDL	None	None
	Tetrachloroethene (mg/l)	QN	BDL	0.088	3.82
	Toluene (mg/l)	QN	BDL	4,000	50
	1,2,3-Trichlorobenzene (mg/l)	ND	BDL	None	None
	1,2,4-Trichlorobenzene (mg/l)	ND	BDL	None	None
	1,1,1-Trichloroethane (mg/l)	ND	BDL	62	20
	Trichloroethene (mg/l)	ND	BDL	2.34	0.54
	Trichlorofluoromethane (mg/l)	ON	BDL	None	None
	1,2,4-Trimethylbenzene (mg/l)	ND	BDL	None	None
	M&P-Xylenes (mg/l)	QN	BDL	None	50
	O-Xylene (mg/l)	ND	BDL	None	.09
_	Vinyl Chloride (mg/l)	ND	BDL	15.75	0.002
<u>A</u> s	Legend:				
soc	NA = Not Analyzed		7. Surface Water	Protection Criteria for Su	Surface Water Protection Criteria for Substances in Groundwater,
ciai	BDL = Below Detection Limit			Appendix D, Sections 22a-133k-1 through 22a-133k-3 of RCSA	22a-133k-3 of RCSA
tes,	BMQL = Below Method Quantitation Limit	nit	8. SWPC for trivalent chromium.	ent chromium.	
- Pm	ND = Not Detected Bold/shaded results - Exceeded SWPC	·		/olatilization Criteria for Groundwater, A 133k-1 through 22a-133k-3 of RCSA	Volatilization Criteria for Groundwater, Appendix E, Sections 22a- 133k-1 through 22a-133k-3 of RCSA
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SAMPLING RESULTS FOR
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TABLE 17

MacDermid, Inc. 526 Huntingdon Avenue

	water bury, or			
Constituent	Sample ID (sample depth) MW-113 (0*-2*)	Residential DEC¹ (mg/kg)	Industrial / Commercial DEC¹ (mg/kg)	GB PMC ³ (mg/l)
TCLP Arsenic (mg/l)	BDL	10	10	0.5
TCLP Barium (mg/l)	0.324	4,700	140,000	10.0
TCLP Cadmium (mg/l)	BDL	34	1,000	0.05
TCLP Chromium (total) (mg/l)	0.026	3,900²	51,000²	0.5
TCLP Copper (mg/l)	0.149	2,500	76,000	13.0
TCLP Lead (mg/l)	0.196	200	1,000	0.15
TCLP Mercury (mg/l)	BDL	20	610	0.2
TCLP Nickel (mg/l)	BDL	1,400	7,500	1.0
TCLP Selenium (mg/l)	BDL	340	10,000	0.5
TCLP Silver (mg/l)	BDL	340	10,000	0.36
TCLP Zinc (mg/l)	0.131	20,000	610,000	50.0
Volatile Organic Compounds	ND	Varies	Varies	Varies

Legend:

BDL = Below Detection Limit

ND = Not Detected. All EPA Method 8260 VOCs, Detection Limits ranged from 5 µg/mg to 125 µg/mg.

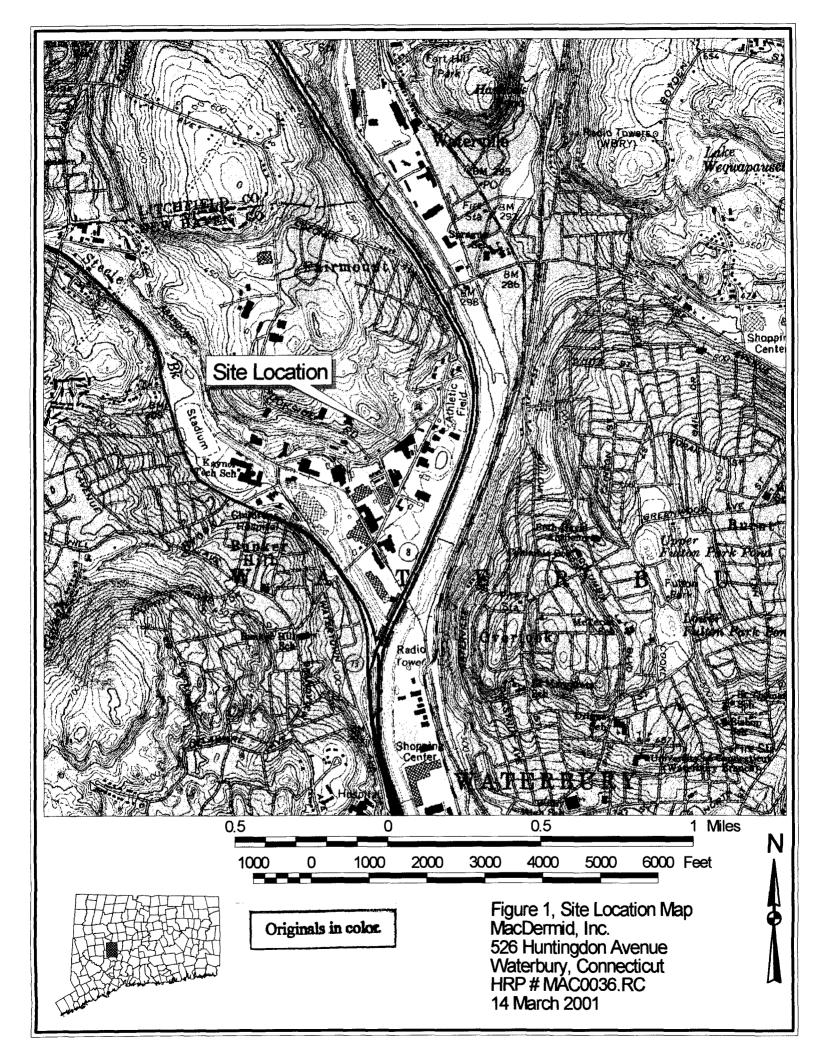
Bold/Shaded results – Exceeded GB PMC

Notes:

4. 7. 6.

Direct Exposure Criteria for Soils, Appendix A, Sections 22a-133k-1 through 22a-133k-3 of Regulations of Connecticut State Agencies (RCSA). DEC standard for trivalent chromium. Pollutant Mobility Criteria for Soil, Appendix B, Sections 22a-133k-1 through 22a-133k-3 of RCSA.

FIGURES



US EPA New England RCRA Document Management System Image Target Sheet

Facility Nar	me: MACDERMID INC
Facility ID#	: <u>CTD001164599</u>
Phase Class	ification: R-1B
Purpose of '	Target Sheet:
[X] Overs	ized (in Site File) [] Oversized (in Map Drawer)
[] Page(s) Missing (Please Specify Below)
[] Privil	eged [] Other (Provide
	Purpose Below)
Description	

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US EPA New England RCRA Document Management System Image Target Sheet

KDMIS DOCUM	ent ID # <u>100825</u>	
Facility Name:	MACDERMID	INC
Facility ID#: _	CTD001164599	
Phase Classific	ation: <u>R-1B</u>	
Purpose of Tar	get Sheet:	
[X] Oversized	d (in Site File)] Oversized (in Map Drawer)
[] Page(s) N	Missing (Please Spe	cify Below)
[] Privilege	ed [] Other (Provide Purpose Below)
	Oversized Metari	1.6 1.11
Description of on the second of the second o	BRUARY 21, 2001	GROUNDWATER

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Date: March 16, 2001

Rev. No. 0

APPENDIX A

EPA'S JULY 29 1994 MEMORANDUM ON RCRA CORRECTIVE ACTION ENVIRONMENTAL INDICATORS

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HRP

Associates, Inc.



HASTE HANGEMENT UNITED STATES ENVIRONMENTAL PROTECTIONCAGENCY WASHINGTON, D.C. 29460 Azs 13 19 27 mi 194

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OFFICE OF SCUO WASTE AND EMERGENCY RESPONSE

MEMORANDUM

SUBJECT:

RCRIS Corrective Action Environmental Indicator Event Codes CA725 and

CA750

FROM:

Michael Shapiro, Director Much flux

Office of Solid Waste

TO:

Regional Waste Management Division Directors

Attached are the final definitions and guidence for the two RCRIS corrective action Environmental Indicator event codes, Human Exposures Controlled Determination (CA725) and Groundwater Releases Controlled Determination (CA750). These Environmental Indicators are designed to measure the environmental status of facilities undergoing corrective action. The development of these Environmental Indicators represents an important transition in reporting successes for corrective action. Through the use of CA725 and CA750, the program can report on actual environmental accomplishments of cleanup activities, rather than focusing strictly on process events.

The definitions and guidance were distributed to the Regions for comment in May. Most commentors asked for clarification on issues rather than suggesting substantive changes. As a result the definitions and guidance have been finalized with only a few changes. Because the definitions and guidance will be incorporated into the FY95 fall release of the RCRIS Data Element Dictionary (DED), the document was modified to include the third proposed status code. This starus code will account for facilities where there is no need for human exposure control measures (CA725) or no release to groundwater (CA750).

The other change which should be noted involves entering the Environmental Indicator event codes under Areas as opposed to legitimate orphans in RCRIS. The Environmental Indicators are designed to be facility level indicators. Every Area at the facility must meet the definition before the event code can be entered. Use of a legitimate orphan is the most direct. way of entering facility level data. However, some Regions are reluctant to create legitimate orphans. To address this concern, Environmental Indicator data can be entered under an Area labeled expressly "Entire Facility". This is a change from the draft where Environmental Indicator information could be entered under any Area. The select logic for reports will only include Environmental Indicator data entered as a legitimate orphan or under an Area labeled "Entire Facility."

The FY95 RIP encourages Regions to use the Environmental Indicator event codes. These codes will be added to the standard reports in the spring of FY95 and were scheduled to become STARS measures for FY96. Although it is expected that STARS will be eliminated as of FY95, these Environmental Indicators will continue to play a prominent role in corrective action reporting.

The definitions and guidance provide several examples to follow when evaluating facilities. We hope these will be helpful. However, we expect that many of these determination will be subjective. If there are questions with using these Environmental Indicators, please contact Susan Parker at 703-308-8653.

cc: RCRA Branch Chiefs
Myra Galbreath
Carolyn Dunston - RPOs
Nancy Browne

Event Code Name: CA725 - Human Exposures Controlled Determination

Definition:

This event indicates there are no current unacceptable risks to humans due to releases of contaminants at or from the facility that are subject to RCRA Corrective Action. This facility wide measure is based on current conditions at the facility, and covers all types of releases and media. Human exposure controls or other corrective action must have been implemented in every case where a release has posed a current unacceptable risk to human health before this event can be entered. (Environmental indicators are not a measure of activity at the facility, but a measure of the environmental status of the facility.) The event may be counted when one or more of the following are met:

1.) Remedial measures have been implemented with the result that all maximum contaminant concentrations detected or reasonably suspected are less than or equal to their respective action levels (e.g., MCLs for groundwater, a 10⁻⁶ risk level for other contaminants, or any other number designated as the action level) or do not exceed an Agency specified cleanup standard for the facility.

OR

2.) There is no unacceptable human exposure to any contaminant concentration above action levels that has been detected or is reasonably suspected based on current contaminant concentrations and current site conditions. Although contamination remains at the facility that may require further remediation, action has been taken or site conditions are otherwise such that unacceptable threats to human health from actual exposure to the contamination are not plausible based on current uses of the site. Such actions may include the use of physical barriers or institutional controls (e.g., deed restrictions or alternative water supply).

Status Codes:

YE Yes, applicable as of this date.

NA Previous determination no longer applicable as of this date.

NC No control measures necessary. (Available Fall FY95).

Initiating Sources:

Documentation signed by the Branch Chief (or above, or his or her delegate) or the State equivalent (if the State is authorized for corrective action.) and entered into the Administrative file for the facility. Such documentation should state that (a) a human exposures controlled determination has been made or (b) a previous human exposures controlled determination is no longer applicable. The documentation should also provide the basis for the determination made under (a) or (b).

Oversight:

Yes, data for this event will be accessible by Headquarters.

Schedule Date:

Date this event is anticipated.

Actual Date:

Date that the EPA or State documents that the facility has achieved the event, or that the event determination is no longer applicable.

Responsible Agency: EPA or State

Guidance:

This event code has been established to enable the corrective action program to identify as a "measure of success," facilities where measures have been implemented such that actual human exposures to contamination at or from the facility do not pose an unacceptable risk to human health, based on current site conditions. The event code applies to the entire facility including any off-site contamination emanating from the facility, rather than individual areas or releases. An entry should only be made after all relevant contaminated media pathways have been evaluated and documentation is available to show that human exposures have been controlled where necessary.

The assessment of whether human exposures are controlled can be accomplished in various ways. Each determination will require a different level of analysis based on the site conditions and the information available on the contaminated release. Logical deduction is the most direct mechanism towards making a human exposures determination. (As a simplified example: soil contamination \div put up a fence = no current exposure). The most resource intensive analysis is a current scenario risk assessment. This option can be used if other types of analysis do not result in a concrete determination of human exposure. This type of assessment can be done using EPA guidance such as the Superfund Risk Assessment Guidance (RAGS). If a risk assessment is conducted, both off-site and on-site human exposures should be considered.

In making determinations of Human Exposures Controlled, it will be necessary to evaluate somewhat differently situations where contamination is entirely within the facility boundary, and situations where releases have migrated beyond a facility's boundary. In cases where contamination (e.g., contaminated ground water) is present only within the boundaries of a facility and there are no drinking water wells on-site, a positive (YE) determination could be entered on the basis that there are no human receptors present (e.g., there are no drinking water wells within the facility that could extract the contaminated ground water). However, for contamination that has migrated beyond the facility boundary, this determination cannot be made unless control measures have been

implemented (e.g., access controls, physical barriers, or institutional controls) that will prevent plausible human exposures from occurring.

The data entry has been set up to provide users with three status code options. First, the YE code is entered into the system only after a positive Human Exposures Controlled Determination has been made for the entire facility. Use of the YE code is appropriate only for facilities where studies have shown that contamination is (or was) present at concentrations causing a plausible risk to human health and measures of been taken to control the risk of human exposure to the contaminanted release.

The second code. NA, is entered only after the YE code has been entered. NA is used when conditions at the site subsequently change so that the human exposures controlled determination is no longer valid. In this context, assessments of human exposures are largely based on the current use of the facility and on surrounding land uses. As these factors change, this indicator may change. Determining whether human exposures to the release have been controlled at a given site is a dynamic measurement and should be reviewed and updated as site conditions change. If new information indicates that the previous human exposures controlled determination is no longer valid, a new status code of NA should be entered. If the situation which caused an NA is brought back under control, then YE may again be entered for the facility.

The third code, NC, is designed to to address cases where there is no risk of human exposure to contaminant releases at the facility due to low/nonexistent contaminant levels or lack of a human receptor. This status code has been included to refine the interpretation of data entered under CA725 by providing the ability to identify facilities where human exposure to contaminantion is not a plausible, current risk.

When entering a new status code or changing a previous determination (i.e. NA), a new record with the new date should be used instead of overwriting the old status code (YE) and the associated date. Entering a new record will ensure that the RCRIS system picks up the most up-to-date code on the facility.

The Environmental Indicator event codes are "legitimate orphans" under the RCRIS system. This means that the entry does not need to be attached to an instrument or an area. Therefore, the "legitimate orphan" is a good mechanism for tracking facility-wide activities such as CA725. Another option for entering Environmental Indicator data is to create an Area specifically entitled "Entire Facility" and enter the event and status

code under this Area. National reports will only pull Environmental Indicator data entered as a legitimate orphan or under an Area expressly named Entire Facility.

For data management purposes, the events are independent from corrective action process events (e.g. stabilization, C.A600). If human exposures have been controlled either through a final remedy, stabilization measures, or some other remedial activity, the event should be entered.

Care should be taken when evaluating the information in this event code for the corrective action universe. Blank spaces or no entries should only be interpreted to mean that the human health risks resulting from a release have not yet been determined at the facility, not that the facility has uncontrolled risks. In addition, finding that direct exposure risks to humans are controlled does not suggest that all potential threats to humans, or threats to the environment, have been adequately addressed or that contamination has been removed or permanently contained.

The following series of examples has been developed to illustrate the use of this event code and the status codes. Many of these scenarios are simplified for clarity's sake. Each Environmental Indicator determination will depend on the particular conditions present at each site. These examples are intended to provide general guidance and increase familiarity with Environmental Indicator decision-making process:

- A site has only soil contamination (with a temporary cover if wind-blown dust is a concern). A fence has been put up to keep people away and workers on-site wear protective gear appropriate to the level of contamination when exposure is plausible. Although it is possible, it is not plausible that a person would get by the fence and be exposed to the soil contamination. YE can be entered even though the contamination is above action levels or established clean-up goals for the site because human exposure has been controlled. If the fence (or temporary cover) is removed or damaged such that exposures are now plausible while the contamination is present, NA must be entered because the risk is no longer controlled.
- 2. Facility has off-site groundwater contamination (assume all other risks are controlled). Residential neighborhood uses wells that tap into the area contaminated by the release. The facility provides an alternate source of water to residents and insures that people will not use the tap water (e.g. seal the wells). YE can be entered. If the contamination is still present and the alternative source of

water is discontinued, NA must be entered.

- 3. A facility has off-site groundwater contamination. However, in this case, there are no residents near the facility or wells that tap into the contaminated aquifer. YE cannot be entered unless the owner/operator can effectively ensure control over human exposure to the contaminants. YE could be entered once the owner/operator has implemented measures to control human exposures such as preventing the installation of drinking water wells in the area overlying the groundwater contaminant plume, or some other effective exposure control measure.
- 4. In many cases, more than one type of release will present a risk of human exposure. For example, a facility has both soil and groundwater contamination. Before YE can be entered, both types of exposures must be addressed. If the conditions surrounding any one of the control measures changes that would result in a plausible exposure to an unacceptable current risk, than NA must be entered. In addition, if new exposures are identified after making a YE determination, then NA must be entered.
- 5. There also may be situations where there is more than one type of release but only a fraction of the releases present an unacceptable risk of human exposure. As long as the entire facility has been evaluated and human exposure control measures have been established where necessary, YE can be entered. (In order to enter a YE, some type of exposure control measure must be in place at the facility.)
- 6. A facility has ongoing releases to the air from units requiring corrective action and/or units required as a result of corrective action which are not subject to the 264/265 air emission rules (such as wastewater treatment units or other SWMUs) which are found to pose an unacceptable risk to receptors. YE could be entered once the owner/operator has implemented measures to reduce the emissions to an acceptable risk level, such as installation of carbon absorption units or other emission control technology.
- 7. A landfill facility surrounded by residential areas emits a landfill gas resulting in vinyl chloride concentrations (in air) in excess of health based levels. The facility implements a response action plan including air monitoring and interim remedial measures such as clay compaction of landfill benches and slopes, and improvements

to the landfill gas collection system. YE can be entered once the air monitoring data show the vinyl chloride level has been reduced below the health based action levels.

8. Solvent Recycling Facility

A facility has high concentrations of contaminated ground water entering into an adjacent creek. The geology of the site consists of a shallow (20 feet thick) unconsolidated overburden which overlies fractured bedrock. The concentrations of observed contamination in the ground water and soil strongly suggest the presence of DNAPLs although no direct visual evidence of separate phase contamination has been found. The facility has implemented the following actions to avert human exposure to the contamination: (1) a shallow ground-water recovery system was installed to capture contamination entering the adjacent creek; (2) a fence around the facility boundary erected; (3) no fishing or swimming/wading signs were posted along the creek which contamination has been detected in the surface water, creek sediments, and creek bank. The facility feels that these actions will prevent exposure to the creek itself and the drinking water wells which tap the bedrock aquifer on the other side of the creek.

Although the actions taken were warranted, upon careful evaluation, the regulator determined that YE cannot be entered for the following reasons:

- (1) The potential for DNAPL suggests that contamination could be present in the bedrock aquifer and could be migrating in directions not associated with the shallow ground-water flow. Contamination in the bedrock aquifer might not discharge into the shallow creek, and could, therefore, impact the nearby private wells. The facility has not characterized ground-water flow or contaminant occurrence in the bedrock aquifer.
- (2) The fence was installed at the top of the creek bank adjacent to the facility. This fence does not preclude exposure of humans to seeps of highly contaminated ground water flowing through the creek bank. Both sides of the creek would have to be fenced and perhaps guarded to ensure against human exposure.

9. Perroleum Refinery

A past release of a gasoline from a refinery has resulted in on-site soil, soil gas, and ground-water contamination. Nearby residents had complained of chemical smells in their basements. Air monitoring confirmed that homes had been impacted by a soil vapor plume that had migrated beneath a parking lot and road. The facility installed and is operating a product removal, vapor extraction, and ground-water pump and treat system to prevent further off-site migration of the contamination. The facility contends that these measures were designed to prevent exposures to humans residing in the off-site homes, approximately 250 feer from the furthest extent of the ground-water contamination.

YE cannot be entered until the lack of exposure had been confirmed through performance monitoring. The residential air sampling conducted as part of the performance monitoring program revealed that concentrations of the volatile chemical were not significantly declining. Upon further investigation, it was discovered that the gasoline had migrated off-site along a the gravel bed of a sewer system. The on-site extraction system was found to be inadequate to prevent exposure to this existing off-site contamination. The facility purchased the five impacted homes and displaced the residents. An off-site remedial system was installed. Performance monitoring revealed that the human exposures were controlled, therefore, a entry of YE at this time would be appropriate.

10. Batter Recycling Facility

This facility has extensive lead contamination of on-site soils. The soils were contaminated both from the fallout of particulate emissions from the past recycling operations as well as the disposal of crushed battery casings. Ground-water is not used for drinking water, nor was it found to be impacted from the lead contamination. The current discharges to air from the operations meet Clean Air Act standards. Interim measures including a facility fence, perimeter air monitoring, and a cap over contaminated soils have been implemented. The facility contends that these measures are adequate to prevent human exposure from the site.

While the measures were proven to be successful in preventing ongoing off-site releases and human exposures, the impact from past releases had not been fully documented. Therefore, YE could not be entered. A requirement to perform off-site investigations at residences located off-site in the prevailing downwind direction revealed elevated levels of lead contamination in yards and inside homes. Samples of blood taken from the residents revealed elevated levels of lead. The facility took extensive actions at two impacted residences including: (1) removing contaminated soils, bringing in new top soil and revegetating yards; (2) replacing carpeting, drapery, and furniture; and (3) extensively cleaning the inside and outside of the house. Subsequent sampling confirmed that absence of lead above levels of concern. YE could be entered at this point in time.

Event Code Name: CA750 - Groundwater Releases Controlled Determination

Definition:

This event indicates that groundwater releases subject to RCRA Corrective Action at the facility are controlled. This event may be counted when one or more of the following conditions are fulfilled and documented by field measurements and/or observations including the direction of groundwater flow gratients over time.

For all known or reasonably suspected groundwater contamination at the facility in excess of action levels, or in excess of an Agency specified clean-up level:

1.) An engineered system has been installed that is designed and operating (including performance monitoring) to effectively control the further migration beyond a designated boundary such as the engineered system, the facility boundary, a line upgradient of receptors, or the leading edge of the plume as defined by levels above the Agency established action levels or clean-up standards.

OR

2.) The Agency has determined that the groundwater cleanup objectives can be not without the use of an engineered system through the remedial measures selected, including facilities where the contamination will naturally attenuate.

Status Codes:

YE Yes, applicable as of this date.

NA Previous determination no longer applicable as of this date.

NR No release to groundwater.

Initiating Sources:

Documentation signed by the Branch Chief (or above or his or her delegate) or the State equivalent (if the State is authorized for corrective action), and entered into the Administrative file for the facility. Such documentation should state that (a) a groundwater releases controlled determination has been made or (b) a previous groundwater releases controlled determination is no longer applicable. The documentation should also provide the basis for the determination made under (a) or (b).

Oversight:

Yes, data for this event will be accessible by Headquarters.

Schedule Date:

Date this event is anticipated.

Actual Date:

Date that the EPA or State documents that the facility has achieved the event, or that the event documentation is no longer applicable.

Responsible Agency: EPA or State

Guidance:

This event is based on the physical movement of groundwater contaminants rather than the risk that groundwater contamination presents. The event is a facility wide measure. Therefore, all groundwater releases at the facility must be controlled before this event can be entered (Groundwater Releases Controlled Determination).

The Groundwater Releases Controlled Determination is based on field measurements and, to the extent necessary, other scientific analysis including modeling, capture zone determination, aquifer tests, groundwater flow meters, tracer tests, and isotope studies. These scientific tools help determine what remediation measures can achieve groundwater containment at a particular site and can monitor the contaminated plumes. Engineered treatment systems used to control groundwater releases include, but are not limited to: extraction wells, slurry walls, sheet piles, and drain systems. Occasionally, the Agency will make the determination that a release will not require an engineered system for containment. This type of site includes facilities where the release will naturally attenuate.

The data entry has been set up to provide users with three status code options. First, the YE should be entered once a positive Groundwater Releases Controlled Determination has been made. After the YE status code has been entered, the Region or State implementor should continue. to require and review performance monitoring data to ensure the positive determination is still valid. In many cases, long term groundwater monitoring will be necessary to confirm containment of groundwater contaminant plumes. If the groundwater release begins to further migrate beyond the designated boundary above the Agency established action levels or clean-up standards such that the previous code is invalid, the second status code of NA should be entered indicating that the groundwater release is no longer controlled. If the situation which caused an NA is brought back under control, then YE may again be entered for the facility. In some cases, seasonal fluctuations of the gradient prevent control of the release. If there is a history of seasonal fluctuation at a site, YE cannot be entered until the Agency is assured that the fluctuations will not cause the migration of contamination above the action levels or clean-up standards.

The third code, NR, is designed to to address cases where there is no

release of contaminants to groundwater at the facility. This status code has been included to refine the interpretation of data entered under CA750 by providing the ability to identify facilities where there is no groundwater contamination problems have been shown to exist.

When entering a new status code or changing a previous determination (i.e. NA), a new record with the new date should be used instead of overwriting the old status code (YE) and the associated date. Entering a new record will ensure that the RCRIS system picks up the most up-to-date code on the facility or area.

The Environmental Indicator event codes are "legitimate orphans" under the RCRIS system. This means that the entry does not need to be attached to an instrument or an area. Therefore, the "legitimate orphan" is a good mechanism for tracking facility-wide activities such as CA750. Another option for entering Environmental Indicator data is to create an Area specifically entitled "Entire Facility" and enter the event and status code under this Area. National reports will only pull Environmental Indicator data entered as a legitimate orphan or under an Area expressly named Entire Facility.

For data management purposes, the events are independent from corrective action process events (e.g. CA600). If a release has occurred and been controlled either through a final remedy, stabilization measures, or some other remedial activity, the event should be entered.

Care should be taken when evaluating the information in this event code for the corrective action universe. Blank spaces or no entries should only be interpreted to mean that the releases have not yet been determined at the facility, not that the facility has uncontrolled releases. In addition, finding that the groundwater releases are controlled does not suggest that the contamination has been adequately addressed or that the release has been removed or permanently contained. Further substantial cleanup measures of the controlled plume may be necessary.

The following series of examples have been developed to illustrate the use of this event code and the status codes:

1. If the plume is contained within the designated boundary, as verified by an adequate performance monitoring program, due to an engineered system, regardless of whether the plume is on or off-site, groundwater releases are controlled and YE can be entered. In this situation, the location of the plume with respect to the facility boundary may not matter. If the plume begins to

further migrate beyond the designated boundary at concentrations above the Agency established action levels or clean-up standards, the status code should be changed to NA.

- 2. If groundwater contamination is contained through natural processes (i.e. degradation) and EPA/state has determined that natural attenuation of the contamination is a protective remedy that will meet the established clean-up goals for the facility (provided that the contaminated plume is predicted to remain within a designated boundary during the projected remedial time frame), then the groundwater releases are controlled and YE can be entered. This type of determination must be supported by data. If conditions change where natural conditions no longer prevent the plume from migrating beyond the designated boundary at concentrations above the Agency established action levels of clean-up goals, NA must be entered.
- There may be cases where groundwater contamination is released to surface water, such as into a stream running alongside the facility. If the concentrations of contaminants in the groundwater flowing into the surface water exceed action levels or an Agency established clean-up standard, then the release is not controlled. Note that the concentration of contaminants is measured in the groundwater, not in the surface water. It does not matter if the surface water then dilutes the released contaminants below action or clean-up levels. Only in cases where an extraction well has pulled the plume back so that any groundwater contamination released to surface water is below action levels, could this code be entered.
- 4. If an additional groundwater release is discovered at the facility after other groundwater releases have been controlled and YE entered, than NA must be entered. Once the new release has been controlled, than YE can be entered again.
- 5. Pump and Treat Design Based on Capture Zone Modeling

Extensive ground-water modeling conducted by a facility's consultant predicted pumping 4 extraction wells at a combined rate of 350 gallons per minute (gpm) will effectively achieve hydraulic containment of the contaminant plume. The facility installed and began operating the system per the consultant's design. The facility submitted a performance report that indicated that the 350 gpm system was in operation; therefore, further migration of

contaminated ground water was controlled.

The implementation of the 350 gpm ground water pump and treat system, in and of itself, does not provide evidence that groundwater releases are controlled, even if the pumping rate was determined by modeling. While ground-water modeling can be helpful in designing remedial systems, the numerous assumptions made during the modeling exercise necessitates field measurements to confirm the model's predictions. YE should not be entered until the facility has submitted field measurements that provide evidence to support the "releases controlled determination." A clearly designed and implemented performance monitoring program is necessary to ensure the availability of adequate data to evaluate a YE determination. Plans for ongoing performance monitoring programs should be submitted, reviewed, and approved as an essential component of the remedial design.

6. Chamical Manufacturer

A facility has high concentrations of contaminated ground water in a highly heterogeneous coastal-plain aquifer. The extent of the plume was delineated and found to be migrating off-site under an adiacent farm. Although the concentrations of chlorinated solvents near the production area of the facility suggest the presence of DNAPL in the subsurface, no direct evidence of separate-phase contamination was observed during site investigations. Access to the farmer's property was granted, for a negotiated fee, and the facility implemented a pump and treat system designed to control the further migration of the contaminant plume. Several rounds of performance monitoring data collected from strategically placed monitoring wells and piezometers were submitted. The reports claimed that the system was effectively containing the plume, and provided field measurements to support the claim. Based on the available information. YE could be entered at this time.

Once the further migration of the plume was effectively controlled, the facility pursued other ground-water remedial actions designed to reduce confaminated mass in high concentration areas. During this time, a new EPA geologist was assigned to the case; this person had previous experience in identifying lineaments (linear surface features that could be indicative of subsurface conditions). During the geologist's review of a proposal to pump hot spots, she recognized a narrow (< 50 ft. wide) linear feature on an aerial photograph that passed through the production area of the facility.

She felt this feature might be an indication of a paleo-stream channel in the subsurface. The existence of such a feature was consistent with the conceptual model that had been formulated for the site. The EPA geologist required "direct-push" sampling of the shallow ground water in the middle of the feature and approximately 50 feet to either side. The facility was surprised to find ppm levels of chlorinated solvents in the sample collected from the center of feature, and no-detectable levels in the other two samples.

A subsequent boring and ground-water investigation of the area confirmed the presence of a paleo stream channel, as well as residual TCE DNAPL. The paleo channel had served as a preferential pathway for contaminant migration. The investigation also revealed the contaminated ground water within the channel flowed in a 45 degree angle from the previously delineated and "controlled" plume. The geologist recognized that all of the contaminated ground water at the facility was not longer being controlled; therefore, she entered NA.

Date: March 16, 2001 Rev. No. 0

APPENDIX B

TRC'S SEPTEMBER 4, 1993 FINAL RCRA FACILITY ASSESSMENT REPORT

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HRP

Associates, Inc.



TRC Environmental Corporation
Boom Mill: South Foot of John Street
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508 970-5001

September 24, 1993

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31. A. C. C. S.

Ms. Kathy Castagna
Regional Project Officer
U.S. Environmental Protection Agency
Waste Management Division
JFK Federal Building, Room 2203
Boston, Massachusetts 02203

Reference: Contract No. 68-W9-0003, TES-6

Work Assignment No. R01038 MacDermid, Incorporated RCRA Facility Assessments

(Ref. 1-635-368)

Subject:

Deliverable: Final RCRA Facility Assessment

Dear Ms. Castagna:

In accordance with the reporting requirements of the subject Work Assignment, enclosed is one (1) copy of the Final RCRA Facility Assessment (RFA) for the MacDermid, Incorporated facility in Waterbury, Connecticut (EPA ID No. CTD001164599). Please note that two (2) copies of this deliverable and a 3 1/2" diskette version have been submitted directly to the Work Assignment Manager (WAM), Ernest Waterman. Also note that the Final NCAPS Data Input Forms have been submitted under separate cover on this date. This submittal satisfies an additional deliverable requirement for this Work Assignment.

The Draft RFA Report was submitted to EPA and CTDEP on July 8, 1993. Review comments were received from EPA and addressed in this final report. Upon instruction from the EPA WAM, TRC did not add AOCs as requested in EPA comments 1, 2, 3 and 6. Text was edited to clarify AOC status. Please note that one (1) copy of the Final RFA Report (no NCAPS Forms) has been sent to the state contact, under separate cover. A copy of the cover letter to the state will be provided to the WAM.

Questions regarding this submission should be directed to the TRC Project Manager, Joanna Hall, at (508) 970-5757 extension 5256, or me.

Sincerely yours,

William J. Farino Regional Manager

WJF/efg Enclosure

cc: Ernest Waterman/EPA Work Assignment Manager
David Boyd/EPA TES-6 Contracting Officer (letter only)
Jack Lewis, Jr./TRC TES-6 Contracts Manager (letter only)
Joanna Hall/TRC Project Manager

This can be Texas

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FINAL RCRA FACILITY ASSESSMENT MACDERMID, INCORPORATED WATERBURY, CONNECTICUT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Waste Management Division JFK Federal Building Boston, Massachusetts 02203

Work Assignment No.: R01038

EPA Region:

EPA Site/Facility I.D. No.: CTD001164599

Contract No.: 68-W9-0003 (TES-6)

TRC Document No.: L93-670

TRC Project No.: 1-635-368-3-1001-M

TRC Project Manager: Joanna Hall

Telephone No.: (508) 970-5757 x5256

Subcontract No.: N/A

Subcontractor Project Manager: N/A

Telephone No.: N/A

EPA Work Assignment Manager: Ernest Waterman

Telephone No.: (617) 223-5511

Date Prepared: September 24, 1993

TRC ENVIRONMENTAL CORPORATION

Boott Mills South Foot of John Street Lowell, Massachusetts 01852 (508) 970-5600

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) was requested by the U.S. Environmental Protection Agency (EPA) under EPA Contract No. 68-W9-0003 (TES-6), Work Assignment No. R01038, to perform a RCRA Facility Assessment (RFA) of the MacDermid, Incorporated, Huntingdon Avenue (MacDermid) facility (EPA Facility ID No. CTD001164599 in Waterbury, Connecticut. All tasks were performed in accordance with the RFA Scope of Work provided by EPA on October 14, 1992, and TRC's EPA-approved Work Plan, dated November 13, 1992. The Draft RFA Report was submitted to EPA and CTDEP on July 8, 1993. Comments on the Draft Report were received from EPA and have been addressed in the Final RFA Report.

The purpose of the RFA is to identify, gather information on, and evaluate the potential for releases to the environment from Areas of Concern (AOCs), including solid waste management units (SWMUs) and areas where releases may have occurred in the past. In addition, the RFA will provide information in support of EPA's Stabilization Collaboration Initiative (SCI).

Background information for this RFA Report was obtained through file searches conducted at the Consecutive Seas Separated of Environmental Protection (CIDER) and EPA Regional offices; telephone interviews with local officials, facility representatives, and individuals familiar with the property history and characteristics; and conversations with other Rederal, State and local agencies. TRC conducted a Visual Site Inspection (VSI) at the MacDermid facility on May 5, 1993 to collect additional information and observe and document site conditions. As agreed upon with EPA, water-use and population data were obtained from Frost Associates, Inc., who used a computerized method and data from 1990 U.S. Census files to calculate populations on public and private water within specified distance rings. In addition, TRC used topographic map interpretation and interviews with local officials to obtain drinking water and population data for the 0- to 0.25-mile and 0.25- to 0.5-mile distance rings.

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This RFA Report is organized into the following sections and appendices, in accordance with Appendix A of EPA's Scope of Work for this assignment:

- 1.0 Introduction
- 2.0 Site Description
- 3.0 Site Activity/History
- 4.0 Environmental Setting
- 5.0 Preliminary Stabilization Evaluation
- 6.0 Summary

References

Appendix A - Areas of Concern

Appendix B - Selected Past Regulatory Information and Investigative Data

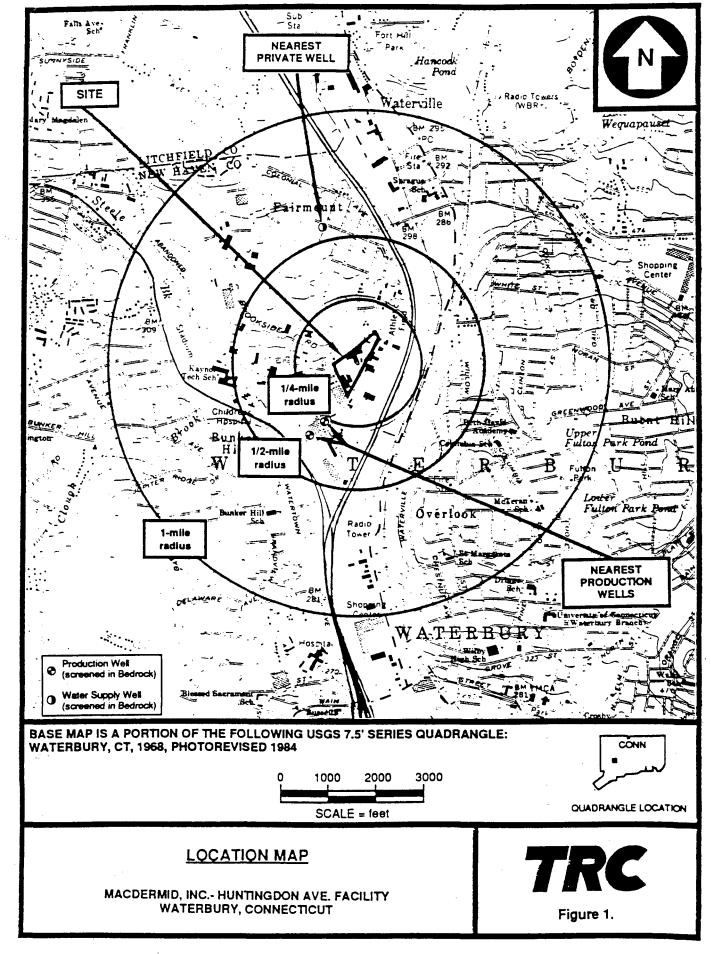
Appendix C - Scanned Copies of Photographs Taken During the Visual Site Inspection

Original photographs taken during the VSI, along with the negatives, have been retained in TRC's project files.

2.0 SITE DESCRIPTION

The MacDermid, Incorporated, Huntingdon Avenue (MacDermid) facility is located at 526 Huntingdon Avenue in Waterbury, New Haven County, Connecticut, at 41° 34′ 39.6″ north latitude and 73° 03′ 22.5″ west longitude (Gabis (TRC), 1993a). The main part of the property encompasses a city block between Huntingdon Avenue, East Aurora Street, and Gear Street and is 11 acres in size (Figure 1) (City of Waterbury, 1993). MacDermid is bordered by residences to the west, by four small businesses to the south, by an auto-body shop to the east and by 42 acres of property also owned by MacDermid to the north (TRC, 1993).

MacDermid has been in business at this location since 1930 (CTDEP, 1984a). Its main operation is the blending of custom chemicals for the metal plating, plating on plastics, and printed circuit board industries (HRP, 1990). MacDermid has two facilities in Waterbury: a smaller one, on Freight Street, the management office and a research laboratory, and a larger

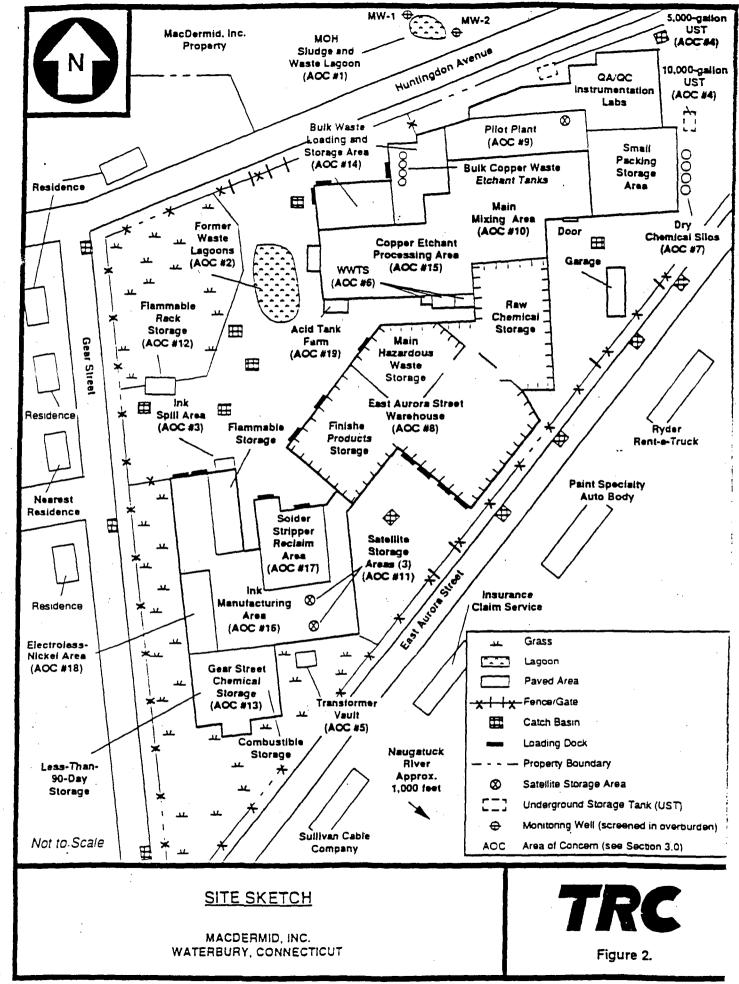


one, on Huntingdon Avenue, largely a spent chemical recycling/reclamation facility for other MacDermid facilities and MacDermid customers (HRP, 1990). The Huntingdon Avenue facility is the subject of this report.

The property investigated consists of three manufacturing and warehouse buildings: a 98,380-square-foot manufacturing building, a 36,000-square-foot ink manufacturing building and a 45,000-square-foot warehouse (Figure 2). The warehouse faces East Aurora Street and will be referred to as the "warehouse." The 98,380-square-foot manufacturing building facing Huntingdon Avenue will be referred to as the "Huntingdon Avenue building." The 36,000-square-foot ink building faces along Gear Street and will be referred to as the "Gear Street building."

The warehouse contains four main areas: the shipping and receiving and loading dock area, two spot-check QA/QC areas, the finished products storage area, and the main hazardous waste storage area (TRC, 1993; HRP, 1990). The entire building has an epoxy-coated concrete floor (TRC, 1993; HRP, 1990).

The main hazardous waste storage area contains a five-tier drum storage rack on which up to 77,000 gallons of waste can be stored (HRP, 1990). The room is 92 feet long by 42 feet wide and has a separate loading dock on the north side of the warehouse from which waste may enter and leave the building (HRP, 1990). Spills from the loading dock may flow toward the driveway; a catch basin in the driveway is covered during testing so that no waste leaves the site (HRP, 1990). There is no history of spills in this area. The main hazardous waste storage area is surrounded by a 3.5-inch epoxy-coated concrete containment berm and the floor slopes toward a 200-gallon collection sump. Materials spilled into the sump are tested to determine if they can be discharged to the wastewater treatment system (WWTS). If they cannot, the wastes are pumped into drums for off-site disposal. If they can, a valve is opened and the wastes enter floor pipes leading to the WWTS (HRP, 1990).



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The finished products storage area is used to store saleable materials on a five-tier drum rack. Spills in this area are contained by the walls of the room (HRP, 1990).

The shipping and receiving area along East Aurora Street has several loading docks and another spot-check QA/QC area (HRP, 1990). Spills in this area are contained by 3.5-inch epoxy-coated concrete berms along the garage doors and are directed toward the center of the area by sloping floors (HRP, 1990). There is no sump in this area, therefore, spills would be cleaned up (HRP, 1990). The warehouse is connected to the Huntingdon Avenue building by a raw chemical storage area. These materials are dry chemicals (e.g., sodium hydroxide) and are contained by the walls of the building (HRP, 1990; TRC, 1993). The dry chemicals were formerly stored in dry chemical silos located on the east side of the Huntingdon Avenue building (TRC, 1993).

The Huntingdon Avenue building contains the copper etchant reclamation area, the bulk loading/unloading and storage area, the QA/QC and instrumentation laboratories, the Pilot Plant, the dry chemical mixing area, and the small packaging storage area (HRP, 1990) TRC, 1993). The building has an epoxy-coated concrete floor (TRC, 1993).

The small packaging area is used to store sample sizes and small quantities (55 gallons) of chemicals for customers (TRC, 1993). These goods are stored in drums and packs on a four-tier drum rack and spills are contained by the concrete walls (TRC, 1993).

The Pilot Plant produces small batches (100 to 200 gallons) of chemicals for testing and sample use (TRC, 1993; HRP, 1990). Spills from this area are collected in floor sumps and after testing, flow into the WWTS (HRP, 1990; TRC, 1993). North of the Pilot Plant are the QA/QC and instrumentation laboratories. The small quantities of waste produced here are stored in one or two drums in a "satellite storage area" (HRP, 1990). The satellite storage

area is located in the Pilot Plant and consists of one to two 55-gallon drums surrounded by a 3.5-inch, epoxy-coated angle iron berm (HRP, 1990). The drums are periodically removed (TRC, 1993).

The dry mixing area is used to blend and repackage drums of dry chemicals (ie: gold cyanide salts, etc.) for shipment (HRP, 1990). Copper plating solution liquid mixing also used to take place here (CTDEP, 1992). Drum wash from this area and any other spills are led into floor drains which discharge to the WWTS (CTDEP, 1987a; CTDEP, 1989a,b; CTDEP, 1992). Dust from this area is fed to a dust collector and washwater from the dust collector is led to the WWTS (CTDEP, 1992).

The west end of the Huntingdon Avenue building contains the bulk storage loading/unloading area, the copper etchant reclamation area and the WWTS. The bulk storage loading/unloading area receives used chemicals from customers and other MacDermid facilities. Materials received at this dock (usually spent copper etchant) are pumped into four bulk waste storage tanks adjacent to the dock (HRP, 1990). There are three 8,000-gallon and one 5,000-gallon tanks surrounded by a two-foot-high by seven-inch-wide epoxy-coated concrete berm (HRP, 1990). Spills on the loading dock are contained by the walls and by a 3.5-inch concrete berm at the doors (HRP, 1990). The sloping floor leads to floor drains and the WWTS. Catch basins outside in the yard are covered during loading and unloading operations (HRP, 1990). Drums are washed on the loading dock after being emptied and these fluids go to a sump which discharges to the WWTS (CTDEP, 1992).

The copper etchant reclamation area is in the west-central section of the Huntingdon Avenue building (HRP, 1990). Spent copper etchant solution is fed through a series of 13 processing tanks before recycled product is emptied into three 6,300-gallon finished product tanks (HRP, 1990). Spills from this area travel through floor trenches directly to the WWTS (HRP, 1990). The total volume of the processing tanks is 37,800 gallons (not including the bulk storage

tanks or the finished product tanks) (HRP, 1990). Currently, approximately 3.000,000 gallons per year of spent copper etchant are reclaimed in this area (MacDermid, 1993a).

The wastewater treatment system (WWTS) consists of eight 15,000-gallon concrete batch tanks, two 3,000-gallon metal hydroxide (MOH) slurry tanks, 17,000- and 8,000-gallon holding tanks, a 12,000-gallon equalization/collection tank, a 15-cubic-foot filter press for MOH slurry and a 26-cubic-yard MOH sludge roll-off container (CTDEP, 1987a). The slurry tanks are open steel tanks within a 3.5-inch epoxy-coated concrete berm (CTDEP, 1992; TRC, 1993). The filter press is also surrounded by a berm (TRC, 1993). Most of the WWTS is contained within the building walls, with the exception of the 15,000-gallon tanks; these tanks are adjacent to the building, with a plastic roof above them (TRC, 1993). The system processes approximately 60,000 gallons per day of wastewater which is fed to the Waterbury municipal sewer system via a nearby sewer outfall (CTDEP, 1990a). A wet scrubber is used in this area to vent vapors, chiefly ammonia, out of the plant (CTDEP, 1989a,b). The open tanks also occasionally emit ammonia vapors to the outside (Waterbury Republican, 1990).

After dewatering in the filter press, the MOH sludge is collected in the roll-off, located in a concrete garage adjacent to the building (TRC, 1993). The garage has a two-foot concrete berm at the garage entrance (TRC, 1993). The rolloff is periodically removed and shipped to Stablex, Quebec, Canada (CTDEP, 1992). MacDermid generates approximately 200 cubic yards of MOH sludge per year (MacDermid, 1993b).

Outside, immediately adjacent to the west wall of the Huntingdon Avenue building, MacDermid maintains a tank farm for the storage of hydrochloric acid, nitric acid, sulfuric acid, and hydrogen peroxide (CTDEP, 1987a; HRP, 1990). There are five 3,000-gallon tanks (Gabis (TRC), 1993c). The area is surrounded by a fence and rests on a asphalt, surrounded by a 2-3-foot concrete berm and fence (TRC, 1993).

There are four dry chemical storage silos located on the east side of the Huntingdon Avenue building. These silos are 10.000-gallon steel tanks on a concrete pad (TRC, 1993). The silos

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are currently empty. Materials formerly held in the silos are now being stored in the raw chemical storage area (TRC, 1993).

The warehouse is connected to the Gear Street building on its south side. The Gear Street building contains the flammable storage area, the combustible storage area, and the less-than-90-day storage area (HRP, 1990; CTDEP, 1992; TRC, 1993). The entire building has an epoxy-coated concrete floor (TRC, 1993).

The flammable storage area is located in the northern end of the building, along the eastern wall (HRP, 1990; TRC, 1993). This area is designed to store up to 16 drums of waste in an eight-foot by ten-foot area and is surrounded by an epoxy-coated four-inch angle-iron berm (HRP, 1990). Outside the berm is a floor trench which leads to the WWTS (HRP, 1990).

The combustible storage area is located in the south end of the Gear Street building. It is designed to store 54 55-gallon drums and four 330-gallon storage totes (HRP, 1990). The area is surrounded by a four-inch, epoxy-coated angle-iron berm (HRP, 1990).

The less-than-90-day storage area is located in the south end of the Gear Street building, next to the electroless-nickel area. It is used as a drum storage area and is contained by four-inch, epoxy-coated angle-iron berms (HRP, 1990; CTDEP, 1992; TRC, 1993). This storage area was added in 1992, in what used to be the N-methyl pyrolle area (CTDEP, 1992).

There are also three production areas located in the Gear Street building. The electroless-nickel plating area is located along the western wall of the Gear Street building. The area blends approximately 3,000 gallons per week of electroless-nickel plating solution for outside sales (CTDEP, 1992). The area uses eight solution blending tanks, the largest of which is 1,200 gallons in volume (CTDEP, 1992). Waste from this area is collected in a floor trench. Water containing nickel is filtered before being added to the WWTS and the filtered nickel is drummed and shipped off site (CTDEP, 1992). Containment for this area is provided by the building walls and the floor trench (CTDEP, 1992). The area has a wet scrubber to remove ammonia vapors generated during processing (CTDEP, 1992).

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The solder stripping area is located in the northwest section of the Gear Street building. Solder stripper reclamation is the second major recycling operation at the facility. Spent lead solder stripper is unloaded on the north side of the building and pumped into a 3,000-gallon settling tank (HRP, 1990; TRC, 1993). Lead fluoride settles out of the tank and is drummed and shipped to a permitted disposal facility (TRC, 1993). From the settling tank, the liquid is pumped to two 1,000-gallon electrolytic cells where copper powder is electroplated out of solution, packed and sold as scrap (HRP, 1990). The liquid is then pumped to two 1,500-gallon polyethylene tanks for further copper removal and subsequent reconstitution of finished product (HRP, 1990). A filter press removes any remaining metal solids and the sludge is drummed and sent off site (HRP, 1990). Containment for this area is provided by the building walls and by the sloping floor which leads to floor drains connected to the WWTS (HRP, 1990).

The ink manufacturing area is located in the center of the Gear Street building. This area is used to blend inks for the printed circuit board industry (HRP, 1990; CTDEP, 1989a.b). MacDermid uses rollers to crush pigment powders and mixes the powders with polymers, resins, and solvents in a series of 140-gallon vats under vacuum (CTDEP, 1989a,b; CTDEP, 1990c; CTDEP, 1992). The finished product is packed in one- and five-gallon cans for shipping to customers (CTDEP, 1989a,b). Spills in this area formerly discharged to a sump on the north side of the building, leading to the municipal sewer system, but the sump is now filled with concrete (Gabis (TRC) 1993c; CTDEP, 1990c). Waste is now mopped up with rags and stored in two satellite storage areas before being shipped off site (CTDEP, 1990c). Waste solvents generated here are collected in drums in the satellite storage areas and stored in the combustible area prior to disposal (CTDEP, 1990c; CTDEP, 1992).

Outside the buildings there are six areas where hazardous materials are presently or have been stored. In 1987, an ink spill under a concrete pad near the sump was discovered on the north side of the Gear Street building (IPC, 1987). Approximately 550 cubic feet of soil was eventually removed (IPC, 1987; IPC, 1988). There is an electrical transformer located in the corner of the east side of the Gear Street building (TRC, 1993). The transformer is approximately four feet by four feet by four feet and rests on a concrete pad (TRC, 1993).

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Two underground oil storage tanks (USTs) are located on the northeast side of the Huntingdon Avenue building (TRC, 1993). A 5,000-gallon fuel oil tank is located in front of the office entrance, on the north side of the building and a 10,000-gallon, empty tank is located on the east side, next to the dry chemical silos (TRC, 1993). Each tank is tight-tested every year (TRC,1993). A flammable raw product rack storage area is located on an unbermed, concrete pad near the grass between the Gear Street and Huntingdon Avenue buildings (TRC, 1993). Raw, flammable materials are stored in secured drums on the fourtier drum rack, which is approximately 40 feet high, 40 feet long and 25 feet deep (TRC, 1993).

Adjacent to the west side of the Huntingdon Avenue building is a paved area that was formerly the location of two waste lagoons and a waste MOH sludge storage area (CTDEP, 1987a). One lagoon was for organic/solvent waste and the other lagoon for MOH sludge (CTDEP, 1987a; IPC, 1986). Lagoons were used to settle precipitates from the wastewater from at least 1972 and probably prior to that (CTDEP, 1987a; Gabis (TRC), 1993c). Untreated wastewater was decanted and discharged to the municipal sewer system (Gabis (TRC), 1993c). The material from the MOH sludge storage area was excavated and transferred to a landfill. Waste from the two lagoons (approximately 1,000 cubic yards) was deposited in a lagoon across Huntingdon Avenue (IPC, 1986; CTDEP, 1987a).

The MOH sludge and waste organics lagoon across Huntingdon Avenue is located approximately 500 feet north of the road, on additional MacDermid property (TRC, 1993). The lagoon received MOH sludge and unidentified organic wastes in 1982-1983 and was filled and paved over in 1986 (CPDEF 1987a: IPC, 1986). The lagoon area, which is situated on top of a bedrock ledge, is 93 feet long and 50 feet wide and has monitoring wells on the north (upgradient) and south (downgradient) sides (TRC, 1993; IPC, 1986). A pile of exeavated soil from the pit lies uncovered on the north side of the lagoon. Some debris has been dumped in the area and there are cracks in the asphalt (TRC, 1993). The monitoring wells were located and capped, but had no concrete pads surrounding the well casing (TRC, 1993).

The MacDermid facility is surrounded by a six-foot high steel fence, topped with barbed wire (TRC, 1993; HRP, 1990). There are two gates on Huntingdon Avenue that are manned by a security guard, who admits the waste haulers (HRP, 1990). There are two open gates on the East Aurora Street side. These gates are kept under surveillance during the day and are locked at night (HRP, 1990). There are two entry doors for the buildings, one on Huntingdon Avenue, at the main office entrance and one at the warehouse; these entrances are staffed during the day and locked at night (HRP, 1990). Employees have electronic cards to activate interior doors and all visitors must be accompanied by an employee (TRC, 1993; HRP, 1990). Electronic security systems are activated at night and alarms are in place at the WWTS, the sprinkler system, and certain sensitive equipment areas, such as the boiler room (HRP, 1990).

The WWTS discharges to the municipal sewer system and from there to the Naugatuck River. Six catch basins in the MacDermid parking lot lead to Steele Brook, 900 feet west of the site. There are an additional five catch basins on East Aurora Street and three on Gear Street (TRC, 1993).

The site is in a mixed commercial/residential/industrial area (TRC, 1993). The nearest residence is 150 feet west of the facility, across Gear Street (TRC, 1993). Ryder Rent-a-Truck, Paint Specialty-Auto Body, Insurance Claim Service and Sullivan Cable Company are all south of the facility, across East Aurora Street, and Tuttle Auto Body is east of the facility (TRC, 1993).

The property is on primarily level ground between Steele Brook and the Naugatuck River but slopes gradually southeast to the river approximately 1,000 feet southeast of the facility (USGS, 1984a; TRC, 1993).

Nineteen (19) Areas of Concern (AOCs) were identified through file review at the EPA and CTDEP and during TRC's VSI on May 5, 1993. Table 1 summarizes the AOCs, including their potential to release to the environment. The AOCs history will be described in further

OON AVENUE	References	IPC, 1986 CTDEP, 1987a	IPC, 1986 CTDEP, 1987a	IPC, 1987 IPC, 1988a,b
, HUNTINGE	Diff-Site Mention	Yes 7		1 XII
INCORPORATED	Regulatory Criteria Exceedance(s)	Ground water: 46.5 ppm fluoride	No analytical data are available.	Soils: 70 ppb 1,1,1, trichlorocthane 2,910 ppp ethylbenzene 62,970 ppb toluene 1,450 ppb
SUMMARY FOR THE MACDERMID INCORPORATED, HUNTINGDON AVENUE	Release Status	Release to soil and ground water	Release to soil, surface water, ground water	Release to soil,
SUMMARY FOR 1 Y, CONNECTICU	Start-Up Date/Closure Date	1978 - present	1930 - 1978(2) and 1978 - 1980(1)	Unknown
AREAS OF CONCERN SUMMARY FOR THE FACILITY, WATERBURY, CONNECTICUT	AOC Description	North of Huntingdon Avenue; an unlined area, 50' x 95', filled with MOH sludge and unspecified wastes, paved with asphalt.	Formerly located in parking lot, west of Huntingdon Avenue building, contained inorganic wastes, MOH, organic waste, and one storage area for sludge.	Contaminated soil, 550 cubic feet, under concrete pad adjacent to Gear Street building.
TABLE 1.	Area of Concern (AOC)	#1 MOH Sludge and Waste Lagoon	#2 Former Waste Lagoons	#3 Ink Spiil Area

		TABLE 1.	TABLE I. (CONTINUED)	•		
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#4 Underground Storage Tanks (USTs) (2)	One 5,000-gallon heating oil UST, located on the north side of the Huntingdon Avenue building. One 10,000-gallon diesel UST, empty, next to dry chemical silos, on east side of Huntingdon Avenue building.	Unknown- present	Low potential for release	No analytical data are available.	Yes	TRC, 1993
#5 Transformer Vault	One steel vault, 4' by 4' by 4', on a concrete pad, next to Gear Street building, facing East Aurora Street.	Unknown- present	Low potential for release	No analytical data are available.	No	TRC, 1993

		TABLE 1.	TABLE 1. (CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#6 WWTS	Consists of 13 waste treatment tanks, a 15-cubic-yard filter press and 26-cubic-yard MOH sludge roll-off. Total volume of system: 60,000 gallons. All in concrete-floored, bermed areas. WWTS discharges to Naugatuck River via Waterbury municipal sewer drain on site.	WWTS without roll-off: 1972-1980. WWTS with 26-cubic yard roll-off: 1980-present.	Release to surface water	Surface water: 5.4 ppm chromium 9.4 ppm cyanide (amenable)	Yes	CTDEP, 1984a CTDEP, 1987a CTDEP, 1989a,b CTDEP, 1992 HRP, 1990
#7 Dry Chemical Silos (4)	Four 10,000-gallon steel silos, currently empty; contained sodium carbonate; sodium metasilicate, sodium hydroxide, sodium hydrogen sulfate.	Unknown - present	Low potential for release	No analytical data are available.	°Z	CTDEP, 1987a HRP, 1989

	References	HRP, 1990	HRP, 1990 TRC, 1993
	Off-Site Migration Potential	N _O	No
	Regulatory Criteria Exceedance(s)*	No anafytical data are available.	No analytical data are available.
TABLE 1. (CONTINUED)	Release Status	Low potential for release	Low potential for release
TABLE 1.	Stàrt-Up Date/Closure Date	1984-present	1930-present Note: Pilot Plant moved from Gear Street building in 1992
	AOC Description	Concrete warehouse containing Main Hazardous Waste Storage Area, the spot-check QA/QC areas, the East Aurora loading area, and the finished products storage area. All materials are in drums, stored on epoxy-coated concrete, in bermed area.	Northeast end of Huntingdon Avenue building. Contains small packaging area; QA/QC lab, with 100-200-gallon test samples; the Pilot Plant. All materials on epoxy-coated concrete floor. QA/QC labs contained within rooms; Pilot Plant and small packaging area have floor drains leading to the WWTS.
	Area of Concern (AOC)	#8 East Aurora Street Warehouse	#9 Pilot Plant (Including QA/QC Labs and Small Packaging Area)

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		TABLE 1.	(CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#10 Main Mixing Area	Main dry chemical production area in the center of Huntingdon Avenue building. Contains the dry mixing area, where drums of chemicals (e.g., gold epoxide salts) are repackaged for shipment. Formerly liquid mixing of copper plating solution from raw chemicals. Epoxy-coated concrete floor, floor drains leading to WWTS.	1930-present	Low potential for release	No analytical data are available.	O _V	CTDEP, 1989a,b CTDEP, 1990c CTDEP, 1992
#11 Satellite Storage Areas (3)	Three drum storage areas, one in Pilot Plant/QA/QC lab, two in ink manufacturing/Gear St. building. Each stores one to two 55-gallon drums on epoxy coated concrete floor with a 3.5-inch berm.	Unknown- present	Low potential for release	No analytical data are available.	ON.	HRP, 1989

		TABLE 1.	TABLE 1. (CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#12 Flammable Rack Storage	Four-tier drum rack storage, outside on a concrete pad in the grassy area with no berm.	Unknown- present	High potential for release	No analytical data are available.	Yes	TRC, 1993 HRP, 1990
#13 Gear Street Chemical Storage Area	Three areas: - less-than-90-day storage area - combustible area - flammable storage area	Unknown- present	Low potential for release	No analytical data are available.	°Z	CTDEP, 1992 HRP, 1990 TRC, 1993
	All drums stored on epoxy-coated concrete floor, with angle-iron berm and concrete berm; floor drains to WWTS.					

Area of Concern (AOC) #14 Bulk Waste Loading and Storage Area	AOC Description - four bulk storage tanks (three 8,000-, one 5,000-gallon) with copper etchant recycling wastes; - a spent copper etchant loading/unloading dock; - a drum washing area on the loading dock. Tanks have two-foot-seven-inch concrete berm on an epoxy-coated concrete floor, while the loading dock slopes to	Start-Up Date/Closure Date Unknown- present	TABLE 1. (CONTINUED) Irt-Up Closure Release Status own- Release to surface water	Regulatory Criteria Exceedance(s)* Surface water: 320 ppm chromium 5.6 ppm lead	Off-Site Migration Potential Yes	References CTDEP, 1990a,b HRP, 1990
	floor drains leading to WWTS.					

-		TABLE 1.	TABLE 1. (CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#15 Copper Etchant Processing Area	In Huntingdon Avenue building: A 13-tank recycling system leading to three-6,300-gallon product storage tanks. Fiberreinforced plastic tanks are stored on epoxycoated concrete floor. Floor drains lead to the WWTS.	1930-present	Low potential for release	No analytical data are available.	O _N	CTDEP, 1987a CTDEP, 1984a CTDEP, 1989a,b CTDEP, 1990c CTDEP, 1991a CTDEP, 1992 HRP, 1990
#16 Ink Manufacturing Area	In Gear Street building: Three roller mills for pressing powders are mixed with solvents in 140-gallon fiber-reinforced plastic vats. Waste solvents, rags, ink sludges collected in 55-gallon drums stored in satellite area and combustible storage area.	1930-present	Low potential for release	No analytical data are available.	o Z	CTDEP, 1984a CTDEP, 1987a CTDEP, 1989a,b CTDEP, 1990c CTDEP, 1991a CTDEP, 1992 HRP, 1990

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		TABLE 1.	(CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#17 Solder Stripper Reclaim Area	Located in the north end of the Gear Street building, it has three tanks totalling 5,000 gallons that process 1,300 gallons per batch of lead solder stripper. Processes occur on epoxy-coated concrete floor, sloping to floor drains leading to WWTS.	1930-present	Low potential for release	No analytical data are available.	o Z	CTDEP, 1989a,b CTDEP, 1990c CTDEP, 1991a CTDEP, 1992 HRP, 1990
#18 Electroless- Nickel Area	Gear Street building: Eight 1,200-gallon tanks processing 3,000 gallons/week. Wastes to filtering area and to WWTS. The area has a wet scrubber for ammonia, an epoxy-coated concrete floor, and a floor trench leading to the WWTS.	1990-present	Low potential for release	No analytical data are available.	°Z	CTDEP, 1992 TRC, 1993

		TABLE 1.	TABLE 1. (CONTINUED)			
Area of Concern (AOC)	AOC Description	Start-Up Date/Closure Date	Release Status	Regulatory Criteria Exceedance(s)*	Off-Site Migration Potential	References
#19 Acid Tank Farm	Outside, on the southwest corner of the Huntingdon Ave. building. Five, 3,000-gallon tanks on asphalt, surrounded by a 2-3 ft. concrete berm and a fence.	Unknown	Low potential for No analytical release data are available.	No analytical data are available.	Yes	TRC, 1993 Gabis (TRC), 1993c

*An exceedance is defined as a contaminant level: 1) three times above hackground, where data are available (soils); 2) above Maximum Contaminant Levels (MCLs) (ground water) (EPA, 1991); or 3) above Ambient Water Quality Criteria (surface water) (EPA, 1991).

detail in Section 3.0, Site Activity/Site History. Appendix A provides detailed descriptions of each AOC, including size, containment factors, and current status. The AOC locations are noted on Figure 2.

3.0 SITE ACTIVITY/HISTORY

MacDermid has been in operation at the Huntingdon Avenue location since 1930. From 1916 to 1928, the property was the location of the Waterbury Steel Ball Company (City of Waterbury, 1993). Before 1916, the property was owned by the Metal Specialty Company; it is not known what this company produced. The Waterbury Steel Ball Company leased the property to MacDermid until 1950, when MacDermid purchased the property (City of Waterbury, 1993).

The MacDermid facility specializes in the recycling of used copper etchant and solder stripper and in the blending of inks, dry chemicals, and plating solutions (HRP, 1990). A wide variety of chemicals are used and produced at the MacDermid facility. Table 2 lists the materials recycled most recently at MacDermid and the most common waste materials generated by production activities. Table 2 also presents the area of the plant most commonly associated with each material or waste product.

Until 1972 MacDermid discharged all its waste untreated to the on-site catch basins. In 1972, MacDermid installed a WWTS that used two lagoons, one inorganic and one organic, to settle waste sludge, while the liquid was discharged, untreated, to the catch basins (CTDEP, 1984a: CTDEP, 1987a). In 1978, a WWTS was installed that neutralized the wastewater. The two lagoons were excavated and the sludge placed in a lagoon across Huntingdon Avenue (CTDEP, 1984a; CTDEP, 1987a). From 1978 to 1980 the MOH sludge from the new WWTS was stockpiled in a new lagoon near the site of the old lagoons. In 1982-1983, this MOH sludge pile was excavated and approximately 168 cubic feet were sent to the Archer Landfill in Shelton. Connecticut (CTDEP, 1987a).

TABLE 2. WASTE AND HAZARDOUS MATERIALS QUANTITIES GENERATED AT MACDERMID, INCORPORATED HUNTINGDON AVENUE FACILITY 1987-1993

(AVENUE FACILITY 1907-1993			
Substance	Quantity	Waste or Product	Associated Source Area	
Copper Etchant	3,400,000 gallons/year	Recycled product	Copper Etchant Area	
Solder Stripper*	50,000-150,000 gallons/year	Recycled product	Solder Stripper Area	
Solder Conditioner*	46,500 gallons/year	Recycled product	Solder Stripper Area	
N-methyl pyrolle1	5.188 gallons/year	Recycled product	<90-Day Storage Area	
Electroless-copper	41,529 gallons/year	Recycled product	Copper Etchant Area	
Lead Fluoride*	3.000-15.000 pounds/year	Waste	Solder Stripper Area	
Ink Waste	1.760 gallons/year	Waste	Ink Manufacturing Area	
MOH Sludge/Soil	168 cubic yards	Waste	Former Waste Lagoons	
MOH Sludge	Up to 200 cubic yards/year	Waste	wwts	
Ink Sludge/Soil	550 cubic feet	Waste	Ink Spill Area	
Organic Sludge	18 drums/year	Waste	Pilot Plant	
Solvents ²	1.375 drums/year	Waste	Ink Area, Electroless-Nickel Area	
Copper Sulfate	44.500 gallons: 1.070 pounds/year	Waste	Copper Etchant Area	
Electroless-Nickel Waste Solution ³	1.045 gallons/year	Waste	Electroless-Nickel Area	
Vacuum Pump Oil	One drum	Waste	Ink Manufacturing Area	
Acetone	One drum	Waste	Pilot Plank, Ink Manufacturing Area	
Chrome	114,574 gallons/year	Waste	WWTS	
Filters	14 drums	Waste	WWTS	
Drums (crushed)	76 (5.944 pounds)	Waste	Loading/Unloading Areas	
Acid-Zinc Solution	2,000 gallons/year	Waste	Electroless-Nickel Area	
Waste Oil	300 gallons/year	Waste	Whole Facility	
Methyl Ethyl Ketone	400 gallons/year	Waste	Whole Facility	
Alcohol	One drum/year	Waste	Whole Facility	
Formaldehyde	1.396 pounds	Waste	Whole Facility	
		<u> </u>		

TABLE 2. (CONTINUED)			
Substance	Quantity	Waste or Product	Associated Source Area
Arsenic	400 pounds	Waste	Whole Facility
Tin Chloride	280 pounds	Waste	Copper Etchant Area. Electroless-Nickel Area
Sodium Permanganate	80 pounds	Waste	Electroless-Nickel Area
Pyridine and Benzene	200 pounds	Waste	lnk Area
Methanol	60 gallons	Waste	Whole Facility
1,1,1-Trichloroethane	680 gallons	Waste	Whole Facility
Isopropropyl Alcohol	One drum	Waste	Whole Facility
Copper Chloride (liquid)	605 gallons	Waste	Copper Etchant Area
Acetate	15 gallons	Waste	Ink Manufacturing Area
Lead and Cadmium	1,355 gallons	Waste	Solder Stripping Area
Ethylene Glycol	1.265 gallons	Waste	Whole Facility
Chromic Acid	1.574 pounds	Waste	Copper Etchant. Electroless-Nickel Area
Copper Chloride (solid)	2.390 pounds	Waste	Copper Etchant Area
Glycol Ether	880 gallons	Waste	Whole Facility
Titanium Sulfate	300 pounds	Waste	Whole Facility
Barium Hydroxide	45 pounds	Waste	Whole Facility
Phosphoric Acid	800 pounds	Waste	Electroless-Nickel Area. Pilot Plant, QA/QC Laboratories, WWTS
Sodium Hydroxide	2.194 pounds	Waste	wwts
Acetone	One drum (55 gallons)	Waste	Whole Facility
Hydrochloric Acid	149.280 pounds	Waste	Whole Facility
Nickel Sulfate	800 gallons	Waste	Electroless-Nickel Area
Cadmium/Sodium Fluoride	874 pounds	Waste	Solder Stripping Area
Styrene	245 pounds	Waste	Ink Manufacturing Area

TRC

TABLE 2. (CONTINUED)				
Substance	Quantity	Waste or Product	Associated Source Area	
Ammonium Nitrate	65 pounds	Waste	WWTS	
Potassium Hydroxide	200 pounds/year	Waste	Whole Facility	
Anilines	685 pounds/year	Waste	Ink Manufacturing Area	
Sodium Cyanide; Cadmium Cyanide	100 pounds/year	Waste	Electroless-Nickel Area. Dry Chemical Mix Area	
Sodium Sulfate	425 pounds/year	Waste	wwts	
Ethanol .	1.135 pounds/year	Waste	Whole Facility	
Sulfuric Acid	52,918 pounds/year	Waste	Whole Facility	
Toluene/Xylene	1.125 pounds/year	Waste	Whole Facility	
Isocyanate	400 pounds/year	Waste	Electroless-Nickel Area. Dry Chemical Mixing Area	
Resin/Acrylimide	165 gallons/year	Waste	Ink Manufacturing Area	
Mercaptan	74 pounds/year	Waste	Ink Manufacturing Area	

References: MacDermid, 1993a.b: CTDEP, 1987a; EPA, 1991a; IPC, 1986; IPC, 1988a.b

MacDermid uses several hazardous waste transporters and disposal facilities. The MOH sludge is sent by Sealand. Inc. to Stablex, Quebec, Canada for disposal (CTDEP, 1992). Lead fluoride is sent out and disposed of by Laidlaw, Inc. (TRC, 1993). Electroless-copper waste was once shipped to DuPont, New Jersey, but is now sent to another MacDermid facility in Ferndale, Michigan for reclamation (MacDermid, 1992). Chrome wastes are shipped to DuPont, New Jersey for disposal (MacDermid, 1993a,b). Other transporters and disposal facilities include: WRC, Pennsylvania for MOH sludge; EWR, Waterbury, for solvents and corrosives; CP Chemical for copper sulfate; and Solvent Recovery Service (SRS) for used solvents (CTDEP, 1987a; CTDEP, 1989a; CTDEP, 1990c; CTDEP, 1992).

MacDermid submitted a RCRA Part A Application, the Hazardous Waste Notification Form, on November 13, 1980, but modified it in 1985, 1990, and 1991 (EPA, 1980; EPA, 1985;



^{* =} Waste quantities recently reduced

^{1 =} No longer produced

^{2 =} Undifferentiated solvents

^{3 =} Includes approximately 600 gallons produced at Freight Street facility.

EPA, 1990; EPA, 1991a). The most recent waste storage capacities identified on the form include 29,000 gallons bulk waste storage, 26 cubic yards in a roll-off, and 82,170 gallons of total hazardous waste storage (EPA, 1991a). MacDermid first submitted a RCRA Part B Permit Application in 1988; it was approved in May 1990 and most recently revised on February 17, 1992 (HRP, 1990). MacDermid also has an NPDES permit to discharge wastewater, first issued in 1978 (CT0024988); a Connecticut Interim Storage Permit issued in 1984 (DEP/HWM028); and a Connecticut Hazardous Waste Transporter Permit (CTW 330) (CTDEP, 1984b; CTDEP, 1985).

MacDermid, Huntingdon Avenue facility, was listed on the CERCLIS as CTD981898463 on January 1, 1987 (EPA, 1993). NUS completed a Preliminary Assessment on April 27, 1987 and issued a medium priority recommendation (NUS, 1987).

Although MacDermid has never had a comprehensive environmental assessment, it has an extensive regulatory and investigative history. CTDEP inspections and other investigative and regulatory activities are summarized in Table 3.

TABLE 3.	REGULATORY AND INVESTIGATIVE HISTORY, MACDERMID, INCORPORATED, HUNTINGDON AVENUE FACILITY, WATERBURY, CONNECTICUT
Date	Activity
November 13, 1980	MacDermid submits its original Part A Hazardous Waste Notification Form (EPA, 1980).
July 7, 1984	CTDEP conducts a Hazardous Waste Inspection at the MacDermid facility. The inspection notes that MacDermid has stored MOH sludge in piles in a lagoon, but has moved the sludge across the street in 1982-1983. The inspection notes several deficiencies in the facility's waste handling procedures (several hundred drums of waste were being stored outside) (CTDEP, 1984a).
September 14, 1984	MacDermid receives an Interim Status Permit from CTDEP to operate as a hazardous waste treatment and storage facility (CTDEP, 1984b).
November 7, 1984	Order to Abate Pollution HM-217 is issued to the MacDermid facility requiring MacDermid to implement a plan to improve chemical and waste storage practices (CTDEP, 1984c).

	TABLE 3. (CONTINUED)
Date	Activity
February 15, 1985	A sample of MacDermid's wastewater collected by CTDEP personnel contains 5.4 ppm chromium, in excess of permit requirements (CTDOH, 1985a). MacDermid indicates it would take steps to prevent a recurrence of the problem (MacDermid, 1985).
February 18, 1985	The CTDEP reissues MacDermid's NPDES wastewater discharge permit (CTDEP, 1985). In the permit, MacDermid's discharge is specified at 60,000 gallons/day; the wastewater is discharged to the Waterbury municipal sewer system (CTDEP, 1985).
March 19, 1985	MacDermid revises its Part A application to include its current waste storage capacities (EPA, 1985).
April 25. 1985	MacDermid submits the 1984 CTDEP waste report for 72.750 gallons of mostly copper etchant and solder stripper that was later recycled (MacDermid, 1985).
May 19. 1985	Heynen Engineers conducts a hydrogeologic study of a proposed warehouse to be built at the MacDermid facility, including five test pits, thirteen soil borings, and a monitoring well. Contaminants found in the soil include tetrachloroethylene (13 ppb), oil and grease, (0.82 to 0.95 percent), chromium (0.055 ppm), copper (6.15 ppm), zinc (5.69 ppm), nickel (6.67 ppm), barium (1-3 ppm), cadmium (0.08 ppm), and lead (5.9 ppm) (Heynen, 1985). Ground water samples contained xylene (75 ppb), 1,1,1-trichloroethane (400 ppb), trichloroethylene (17 ppb), 1,1-dichloroethane (40 ppb), 1,2-dichloroethylene (50 ppb). A one-inch thick layer of black fill was found to contain 5.96 ppm lead, but this layer was not removed. These amounts were not determined to have an adverse impact on construction and the central warehouse was built with CIDEP's approval (Heynen, 1985, IPC, 1985b).
June 13. 1985	CTDEP personnel collect a split sample from the test pit with the high lead concentration. Analytical data indicated the soil had only 0.04 ppm lead, 2 ppb toluene, 2 ppb benzene (CTDOH, 1985b).
September 1986	IPC submits a closure plan for the MOH sludge lagoon at MacDermid. IPC installs a downgradient and an upgradient well (MW-1, MW-2, respectively). Analytical results from ground water samples indicates the presence of fluoride (46.5 mg/l) only in the upgradient well. The volume of waste at the lagoon is estimated to have been 1,000 cubic yards. (IPC, 1986). IPC grades the site and covers it with asphalt (IPC, 1986).

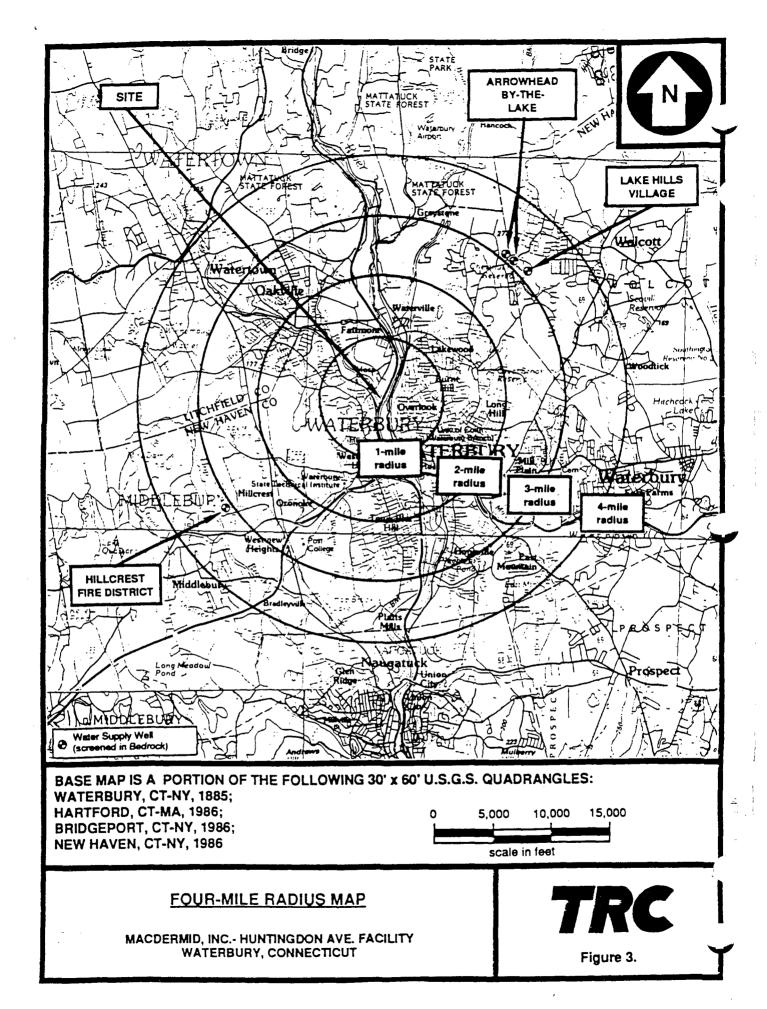
	TABLE 3. (CONTINUED)		
Date	Activity		
December 14, 1987	IPC samples a layer of soil onto which ink and ink waste had spilled. The soil layer (28" thick) contained, 1,1,1-trichloroethane (70 ppb), ethylbenzene (2,910 ppb), benzene (14,760 ppb), toluene (62,970 ppb), and xylenes (11, 450), supposedly not derived from the ink (IPC, 1987). The soil, 550 cubic feet, is excavated and replaced with clean fill.		
February 16, 1987	MacDermid's 1986 Regulated Waste Report includes a total of 35,300 gallons, mostly copper etchant that was recycled (MacDermid, 1987).		
April 22/24, 1987	A CTDEP Hazardous Waste Inspection Report at the MacDermid facility notes that a large-scale inventory of materials was in process and several drums of materials were poorly labeled and in poor condition. A floor sump in the ink building was found to lead to the municipal sewer system (CTDEP, 1987a).		
April 29, 1987	NUS completes a CERCLA Preliminary Assessment (PA) on the MacDermid facility under CERCLA No. CTD981898463 (NUS, 1987). The MacDermid facility is entered onto CERCLIS on January 1, 1987 (EPA, 1993). The PA identifies the metal sludge lagoon as the main waste disposal area and Steele Brook as a potential surface water receptor (NUS, 1987).		
December 18, 1987	MacDermid is issued a Summons to Civil Court vs. the CTDEP (State of Connecticut, 1987) for numerous violations, including improper waste storage, failure to have adequate records, closure plan, waste analysis plan and other deficiencies (State of Connecticut, 1987).		
January 29, 1988	MacDermid's 1987 Regulated Waste Report identifies 280,530 gallons of waste handled and 1,705 gallons produced (MacDermid, 1988). 255,000 gallons of waste were recycled copper etchant solutions (MacDermid, 1988).		
May 5, 1988	IPC detects 46 ppb benzene and 42 ppb toluene in soil samples excavated from the ink stain area (IPC, 1988a).		
June 28, 1988 July 15, 1988	Samples collected from the MacDermid WWTS exceed permit requirements for cyanide (9.3 mg/l complex) and suspended solids (100 mg/l) (CTDOH, 1988).		
August-September, 1988	IPC installs six soil borings in the ink pad area; only one boring contained any contamination (15 ppb toluene). The area is eventually paved over (IPC, 1988b).		

	TABLE 3. (CONTINUED)		
Date	Activity		
April 20. 1989	A Motion for Stipulated Judgement is submitted to Connecticut for settlement of the CTDEP suit. In the judgement, MacDermid agrees to pay a fine of 33,000 dollars and to comply with those hazardous waste regulations that it had previously disregarded (State of Connecticut, 1989).		
May 10-11-16, 1989	CTDEP conducts a Hazardous Waste Inspection Report, noting some minor labelling problems and containment problems for MOH slurry prior to dewatering (CTDEP, 1989a).		
June 29, 1989	EPA requests information regarding the circumstances surrounding an ammonia release from the MacDermid air scrubber on February 2, 1989 (EPA, 1989).		
October 18, 1989	CTDEP completes a NPDES Compliance Inspection at the MacDermid facility. The MOH slurry tanks required containment and lead was detected in the WWTS effluent, contrary to permit requirements (CTDEP, 1989b).		
May 10, 1990	HRP Associates completes an approved version of MacDermid's RCRA Part B Permit Application (HRP, 1990).		
May 21. 1990	CTDEP informs the Connecticut Attorney General of a discharge problem at MacDermid: drums of spent copper etchant were being washed on a loading dock and the waste was running into a catch basin leading to Steele Brook. The waste contained 320 mg/l copper and 5.6 mg/l lead, far in excess of permitted discharge levels. Sediment in Steele Brook was found to have 24 ppm copper at the discharge point (CTDEP, 1990a). CTDEP requests an injunction to prevent the company from continuing the practice (CTDEP, 1990a).		
May 30. 1990	A CTDEP inspector notices MacDermid improperly collecting wastewater samples from the top of the treatment tank, rather than from the collection sump near the sewer discharge point and filtering samples prior to analysis (CTDEP, 1990b). MacDermid now has an automated sample collection device to prevent further occurrences (TRC, 1993).		
June 28, 1990; July 10, 1990; July 27, 1990	The Waterbury Republican reports the following air releases: - Release of phosphoric acid and glycol from the wet scrubber - An ammonia release from WWTS tank, and - An ammonia release from copper-etchant drums (Waterbury Republican, 1990).		

	TABLE 3. (CONTINUED)		
Date	Activity		
July 5, 1990	MacDermid revises its waste design capacity and identifies separate quantities of wastes handled by the facility, including 2,000,000 gallons/year copper etchant (EPA, 1990), 700,000 gallons ink, 250,000 gallons/year MOH sludge, copper sulfate, chlorinated solvents, resist stripper, waste acids, and plating solutions (EPA, 1990).		
September 12, 1991	MacDermid submits a revised RCRA Part A Application to the EPA, increasing the volume of copper etchant to 3,390,000 gallons/year (EPA, 1991a).		
February 5, 1991	MacDermid's 1990 Regulated Waste Report for 1990 records 58,568 gallons of waste handled and generated (MacDermid, 1991).		
August 21, 1991	A spill report submitted to the CTDEP records a discharge of ammonia vapors within the MacDermid facility. The source is identified as the open WWTS tanks (CTDEP, 1991a).		
September 12, 1991	MacDermid submits a CTDEP Notification of Hazardous Waste and TSDF Application for Permit (MacDermid, 1991).		
January 14, 1992	MacDermid's 1991 Regulated Waste Report for 1991 identifies 5,170 gallons of wastes handled and generated (MacDermid, 1992).		
April 7,8,10,14, 1992	CTDEP Hazardous Waste Inspection Report identifies Steele Brook as the discharge point for non-contact wastewater and the municipal system as the discharge point for treated wastes. The report also notes minor deficiencies in containment, recordkeeping, labelling, etc. (CTDEP, 1992).		
February 17, 1992	MacDermid revises RCRA Part B Permit Application identifying the following recycled materials: copper etchant, solder stripper, solder conditioner, electroless copper, n-methyl pyrolle (discontinued).		

4.0 ENVIRONMENTAL SETTING

The land in the vicinity of MacDermid is in a mixed industrial/residential/commercial area (Figure 3) (TRC, 1993). The soils on the MacDermid site are identified as Ur and Ud: urban land and udorthents, respectively (SCS, 1979). These are either paved areas (Ur) or artificial fill and cut and borrow areas (Ud). The nearest undisturbed soils are the Hinckley gravelly-sandy loam, located on adjacent less-developed properties (SCS, 1979). Overburden at the



site consists of fill over grey-brown, fine to coarse sand with a trace of gravel (stratified drift) (Heynen, 1985). This material may be capable of yielding 50-2,000 gallons/minute water and usually has a saturated thickness of at least 10 feet (Meade, 1987). The bedrock beneath the site is the Waterbury Gneiss, a Cambrian grey to dark grey, fine to medium grained schist and gneiss (Rogers, 1985). Depth to bedrock varies across the site. Across Huntingdon Avenue, at the lagoon location, on top of the small hill, depth to bedrock is 3.5 feet and approximately dips to 25 feet below grade to the south (IPC, 1986).

The nearest residence is approximately 150 feet west, across Gear Street. The nearest private drinking water well was determined from well completion reports at the Waterbury Department of Health and is approximately 0.6 miles northwest of the facility (City of Waterbury, 1993). There are at least two production wells located along East Aurora Street 0.3 to 0.5 miles west of the facility (City of Waterbury, 1993). The nearest public well system is the Arrowhead-by-the-Lake, 2.2 miles northeast (CTDOH, 1991). The Lake Hills Village well is located 2.3 miles northwest and the Hillcrest Fire District well is located 3.1 miles southwest (CTDOH, 1991).

Southwest proving water at MasDermid is approximately 23 for and ground water flows south-southwest proving the MasDermid is approximately 23 for and ground water flows south-southwest proving the MasDermid is approximately 23 for and ground water in this area is classified GB, indicating that it may be used for wastewater disposal and would require treatment before being used as a public water supply (CTDEP, 1987b). There are three local public ground water supply well systems, with a total of four wells, located within four miles of the site, in the towns of Wolcott and Middlebury (Gabis (TRC), 1993b).

Ground water in the immediate vicinity of the facility is largely used only for non-contact, production/cooling purposes (City of Waterbury, 1993).

The MacDermid property slopes southeast, toward the Naugatuck River (TRC, 1993; USGS, 1984a). Surface runoff from the site flows into the catch basins on East Aurora Street and then into Steele Brook, approximately 900 feet southwest (CTDEP, 1990c). MacDermid has an extensive WWTS NPDES permit for discharge to the municipal sewer system leading to the Naugatuck River, approximately 1,000 feet southeast (CTDEP, 1985; USGS, 1984a).

TRC

The Naugatuck River is classified C/B by the CTDEP, indicating that the river is contaminated with industrial pollutants (CTDEP, 1987b). The Naugatuck flows at a rate of 202 ft.³/sec at Thomaston and the 15-mile downstream pathway from MacDermid ends in Seymour, Connecticut, at the Route 67 bridge (USGS, 1984a,b,c). There are no surface water intakes along the Naugatuck River downstream of MacDermid (USGS, 1984a; CTDEP, 1982). There are no designated fisheries along this section of the Naugatuck River, although fishing is not specifically prohibited (CTDEP, 1993). The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps for Waterbury indicate that MacDermid is located in Zone C, not prone to flooding (FEMA, 1979).

MacDermid has 70 employees working two shifts at the facility (TRC, 1993). There may be one residence located within 200 feet of contaminated areas at the site. There are no schools or day care centers located within 200 feet of the site. The following cities and towns are located within four miles of MacDermid: Waterbury (population: 107,040), Watertown (20,308), Wolcott (13,573), Thomaston (6,939), Middlebury (6,087), and Plymouth (11,763) (CT Data Center, 1991).

Table 4 summarizes public water supply sources located within four miles of MacDermid. The table includes the type of supply, the approximate population served, and the location of the supply, including its direction and distance from the site. Table 5 summarizes the approximate population served by private drinking water wells for each distance ring within four miles of MacDermid. This information is derived from U.S. Census data from each town. Table 7 summarizes the population distribution of residents located within a four-mile radius from MacDermid. This data was obtained by examination of U.S. Census records from 1990.

TABLE 4. PUBLIC WATER SUPPLIES LOCATED WITHIN A FOUR-MILE RADIUS OF MACDERMID, INCORPORATED, HUNTINGDON AVENUE FACILITY, WATERBURY, CONNECTICUT

Distance Ring	Source Name	Source Type	Distance/ Direction from Site	Location	Population Served
2.0 - 3.0 miles	Arrowhead- by-the-Lake	Two bedrock wells, 250 feet deep	2.6 miles northeast	Wolcott, Connecticut	123
	Lake Hills Village	Bedrock well, 200 feet deep	2.9 miles northeast	Wolcott, Connecticut	132
Subtotal	·				255
3.0 - 4.0 miles	Hillcrest Fire District	Bedrock well, depth unknown	3.1 miles southwest	Middlebury. Connecticut	150
TOTAL					405

(CTDOH, 1991; Gabis (TRC), 1993b)

There are 1.4 miles of vegetated wetland frontage along the 15-mile length of the Naugatuck River (NWI, 1980a,b,c). These wetlands consist of palustrine, emergent, saturated and semi-permanent, forests and shrub-scrub environments (NWI, 1980a,b,c). There are approximately 720 acres of vegetated wetlands located within a four-mile radius of MacDermid (NWI, 1980a,b,c).

Table 6 provides a list of State- and Federally-listed threatened and endangered species located within four miles of the site. This list does not specifically identify species living along the 15-mile downstream pathway from the site, as this information is not available.

TABLE 5. PRIVATE GROUND WATER USERS LOCATED WITHIN A FOUR-MILE RADIUS OF MACDERMID, INCORPORATED, HUNTINGDON AVENUE FACILITY, WATERBURY, CONNECTICUT			
Distance from the Facility	Town(s)	Population	
0.00-0.25 miles	Waterbury	2	
0.25-0.50 miles	Waterbury	8	
0.50-1.00 miles	Waterbury Watertown	53	
1.00-2.00 miles	Waterbury Watertown	481	
2.00-3.00 miles	Waterbury Watertown Thomaston Plymouth Middlebury Wolcott	3,071	
3.00-4.00 miles	Waterbury Watertown Thomaston Plymouth Middlebury Wolcott	6,587	

(Frost, 1993; Gabis (TRC), 1993b)

TOTAL:

5.0 PRELIMINARY STABILIZATION EVALUATION

Preliminary information for stabilization was previous provided in Table 1. The data provided for each AOC include the following: description, start-up/closure dates, release status, regulatory criteria exceedance and off-site migration potential. Selected analytical data for this facility are discussed in Section 3.0, Site Activity/History. Original data are provided in Appendix B.

10,202

TABLE 6. THREATENED AND ENDANGERED SPECIES LOCATED WITHIN A FOUR-MILE RADIUS OF MACDERMID, INCORPORATED, HUNTINGDON AVENUE, WATERBURY, CONNECTICUT			
Common Name	Name Scientific Name Distance from Site Status		
Great Laurel	Rhododendron Maximum	2.0-3.0 miles	
Hairy Woodmint Blephilia hirsuta 3.0-4.0		3.0-4.0 miles	SC
Variable Sedge Carex Polymorpha 2.0-3.0 miles E, C2			E, C2

The first listing is State, the second is Federal.

SC = Species of Special Concern

E = Endangered

C2 = Candidate for Federal status, category 2.

(Kingsbury, 1993)

6.0 SUMMARY

MacDermid, Incorporated operates a recycling/reclamation and chemical blending operation at 526 Huntingdon Avenue, Waterbury, Connecticut. MacDermid has been in business at this location since 1930. MacDermid uses this facility mainly to reclaim spent copper etchant and solder stripper and to blend dry chemicals, electroless-nickel plating solutions, and inks used in the printed circuit board industry. MacDermid submitted a Part A application as a TSDF in 1980, revised most recently in 1991; and submitted an approved Part B Permit Application on May 10, 1990, most recently revised on February 17, 1992.

Before 1916, the property was owned and operated by the Metal Specialty Company. From 1916 to 1928, the site was owned and operated by the Waterbury Steel Ball Company. From 1930 to 1950, the Waterbury Steel Ball Company leased to property to MacDermid. MacDermid purchased the site in 1950 and added a warehouse in 1985.

TABLE 7. ESTIMATED DISTRIBUTION OF RESIDENTS WITHIN A FOUR-MILE RADIUS OF MACDERMID, INCORPORATED, HUNTINGDON AVENUE, WATERBURY, CONNECTICUT			
Distance from the Facility	Town(s)	Estimated Population	
0.00-0.25 miles	Waterbury	509	
0.25-0.50 miles	Waterbury	1,887	
0.50-1.00 miles	Waterbury Watertown	7,983	
1.00-2.00 miles	Waterbury Watertown	29,871	
2.00-3.00 miles	Waterbury Watertown Thomaston Plymouth Middlebury Wolcott	54,619	
3.00-4.00 miles	Waterbury Watertown Thomaston Plymouth Middlebury Wolcott	36,419	
TOTAL:		131,288	

(Frost, 1993; Gabis (TRC), 1993b)

The following 19 Areas of Concern (AOCs) were identified at the MacDermid facility:

- AOC #1: a metal hydroxide sludge lagoon located north of the facility, across
 Huntingdon Avenue, originally containing heavy metals, cyanide and
 unspecified organic wastes;
- AOC #2: three former waste lagoons located on site, west of the Huntingdon Avenue building, containing unspecified organic and inorganic wastes, and metal hydroxide sludge;

- AOC #3: an ink spill area, located under pavement on the north side of the Gear Street building:
- AOC #4: two underground storage tanks, one 5,000-gallon heating oil tank located on the north side of the Huntingdon Avenue building and an empty 10,000-gallon diesel fuel tank located on the east side of Huntingdon Avenue building;
- AOC #5: a steel transformer vault, located on a concrete pad in a corner on the south side of the Gear Street building.
- AOC #6: the wastewater treatment system, consisting of 13 containment and treatment tanks with a 60,000-gallon total capacity, a filter press and a metal hydroxide sludge roll-off. The system discharges to the Waterbury municipal system;
- AOC #7: four empty dry chemical silos, located on the east side of the Huntingdon Avenue building;
- AOC #8: the East Aurora Street warehouse, containing the main hazardous waste storage area, two loading docks, the spot-check QA/QC areas and the finished products storage area;
- AOC #9: the Pilot Plant, located in the north end of the Huntingdon Avenue building, containing the QA/QC and instrumentation labs, the small packaging area, and the Pilot Plant;
- AOC #10: the main mixing area, located in the center of the Huntingdon Avenue building, containing the dry chemical mixing area and formerly the location of the liquid blending area;
- AOC #11: three satellite storage areas, two in the ink manufacturing area and one in the Pilot Plant; these areas store one or two drums of waste;
- AOC #12: a flammable rack storage area, located outside between the Huntingdon Avenue and Gear Street buildings, where raw flammable chemicals are stored on a four-tiered drum rack;
- AOC #13: the chemical storage area in the Gear Street building, containing the flammable waste storage area, the combustible waste storage and the less-than-90-day storage area;

- AOC #14: the bulk waste loading and storage area, located in the west end of the Huntingdon Avenue building, containing four bulk storage spent copper etchant tanks (totalling 29,000 gallons), a loading/unloading dock; and a drum washing area;
- AOC #15: the copper etchant processing area, located in the Huntingdon Avenue building, containing 13 processing tanks leading to three 6,300-gallon finished product tanks;
- AOC #16: the ink manufacturing area, located in the center of the Gear Street building containing three roller mills, 140-gallon vats and two satellite storage areas used for the blending of inks and the temporary storage of ink wastes;
- AOC #17: the solder stripper reclaim area, located in the north end of the Gear Street building, containing three processing tanks with a total capacity of 5,000 gallons;
- AOC #18: the electroless-nickel area, located on the west side of the Gear Street building, containing eight 1,200-gallon processing tanks.
- AOC #19: the acid tank farm, located on the southwest corner of the Huntingdon Avenue building, containing five 3,000-gallon tanks of raw nitric, sulfuric and hydrochloric acid, and hydrogen peroxide.

Documented releases from the MacDermid facility include contamination of surface soil, ground water and surface water. From at least 1972 to 1978, MacDermid used a wastewater treatment system that used two lagoons to settle inorganic and organic wastes before the liquid was discharged to the municipal sewer system. In 1978, these two lagoons were excavated and the materials were deposited in a lagoon located across Huntingdon Avenue. From 1978 to 1980, MacDermid used a wastewater treatment system which filter pressed metal hydroxide slurry. The liquids were discharged to the municipal sewer system, and the pressed sludge was stored in a new lagoon next to the Huntingdon Avenue building. In 1980, MacDermid purchased a 26-cubic-yard roll-off container for metal hydroxide sludge storage. The on-site lagoon was excavated in 1982-1983 and 168 cubic yards of sludge and soil were sent to a landfill.

In 1984, CTDEP issued Order to Abate Pollution HM-217 to the MacDermid Huntingdon Avenue facility. MacDermid hired IPC, Inc. in 1985 to assist in bringing MacDermid into

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compliance with the order. IPC submitted a report of past waste disposal practices to CTDEP in February 1985. In May 1985, Heynen Engineers, Inc. was hired to investigate the site of a proposed warehouse. Soil borings and one monitoring well were installed in the area. Evidence of soil and ground water contamination were discovered, but not in concentrations high enough to warrant further investigation or remediation of the site, and the warehouse was built.

IPC, Inc. submitted a closure plan for the waste legeon located across Huntingdon Avenue in 1986. IPC's investigation determined that fluoride was the only contaminant present in significant quantities in ground water. IPC recommended that the site be covered with asphalt. In 1987, IPC sampled an area under a concrete pad where ink-stained soil had been discovered. Evidence of soil contamination by benzene, xylene, toluene, and 1,1,1-trichloroethane was discovered. IPC had 550 cubic feet of soil removed in 1988.

In 1990, the CTDEP discovered two discharge and monitoring problems at MacDermid. Water from drum washing at the Huntingdon Avenue building loading dock was being discharged to catch basins leading to Steele Brook. The water contained excess copper and lead. MacDermid arranged for the drum washing area to lead to the wastewater treatment system and for the catch basins to be covered. The CTDEP also discovered that MacDermid had been collecting wastewater effluent samples from the top of the tank and had been filtering the samples, thus eliminating excess metals. An automatic sampling unit was installed to eliminate this practice.

The only areas of concern that have analytical data to support a release to the environment are the metal hydroxide sludge lagoon, the ink spill area, the wastewater treatment system, and the bulk waste loading and storage area. The wastewater treatment system has occasionally had discharge problems with excess copper, chromium, and cyanide.

Potential receptors of contamination from the MacDermid, Inc. facility include the following:

- Approximately 63 residents within one mile of the property who may receive their drinking water from private wells:
- Approximately 131,288 people living within a four-mile radius of the property.
- Steele Brook:
- The Naugatuck River;
- Animal and plant species that inhabit the 15-mile downstream pathway from the property; and
- Approximately 720 acres of vegetated wetlands within a four-mile radius of the property and 1.4 miles of wetland frontage along the 15-mile downstream pathway.

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APPENDIX A

AREAS OF CONCERN

1

AOC Name:

MOH Sludge and Waste Lagoon

AOC Status:

Release

AOC Description:

This AOC is an unlined, asphalt-capped rectangular area approximately 50 feet wide by 95 feet long (TRC, 1993; IPC, 1986). The lagoon was created as a disposal area for sludge and soil excavated from two other MacDermid lagoons in 1978 (CTDEP, 1987a; IPC, 1986). Approximately 1,000 cu. yds. of unspecified organic, inorganic and metal hydroxide (MOH) wastes were discharged to the lagoon in 1978 (IPC, 1986). The lagoon was paved in 1986 (IPC, 1986). The lagoon is located on a bedrock ledge across Huntingdon Avenue, on MacDermid property (TRC, 1993). The asphalt is worn on the edges and cracked in several places (TRC, 1993).

AOC Start-Up Date: 1978 (CTDEP, 1987a)

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

This lagoon received sludge and soil from two lagoons that had existed at the MacDermid facility since at least 1972 (CTDEP, 1987a). The lagoons were used to settle solid waste, while the decanted liquid was discharged to the municipal sewer system (Gabis (TRC), 1993c). One lagoon was used for miscellaneous organic wastes and the other for inorganic wastes, chiefly MOH sludge (CTDEP, 1987a). In 1978, these two lagoons were excavated and their contents were discharged to the lagoon across the street (CTDEP, 1987a; IPC, 1986). Metal hydroxide sludge from MacDermid could contain chromium, lead, copper, nickel, iron, silver and cyanide (MacDermid, 1993a,b).

Release Controls:

The lagous was not capped until 1986; before that surface and ground water could easily penetrate the lagon and distribute contaminants (IPC, 1986). After the asphalt cap was installed, surface water discharge was controlled, but ground water could still percolate through. Cracks in the asphalt currently allow some surface water penetration (TRC, 1993).

Release History:

Known Releases;

There is evidence of a release to soil and ground water, considering that the lagoon is unlined and samples from a nearby well indicated elevated fluoride levels (IPC, 1986).



Release Eridence:

IPC conducted an investigation of the lagoon in 1986. Contaminants detected in the lagoon soil included cadmium (0.02-0.04 ppm), chromium (0.19-0.24 ppm) and silver (0.13 and 0.14 ppm) (IPC, 1986). Ground water samples collected in 1986 contained 46 ppm fluoride in MW-1 (IPC, 1986). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

AOC Name:

Former Waste Lagoons (3)

AOC Status:

High potential for release;

AOC Description:

This AOC is presently a paved area on the east side of the Huntingdon Avenue building (CTDEP, 1984; CTDEP, 1987a). From at least 1972 to 1978 two waste lagoons (one organic and one inorganic) were used as discharge areas for MacDermid's process waste. The solids precipitated into the lagoons, while the liquids were decanted and discharged to the municipal sewer system (Gabis (TRC), 1993c). These two lagoons were excavated in 1978, but a new lagoon (AOC #1) was placed nearby to receive MOH sludge from the new WWTS (CTDEP, 1987a; CTDEP, 1989). In 1982-1983 approximately 168 cu. yds. of sludge and soil were excavated from this area and sent to the Archer Landfill in Shelton, CT (CTDEP, 1987a; CTDEP, 1984). After 1982, MacDermid used drums and a roll off container to store MOH sludge (CTDEP, 1989).

AOC Start-Up Date: 1972 (CTDEP, 1987a)

AOC Closure Date: 1982-1983 (CTDEP, 1987a)

Wastes Managed at AOC:

This AOC received unspecified organic and inorganic wastes from at least 1972 to 1978. From 1978 to 1980, another lagoon received MOH sludge, potentially containing copper, lead, nickel, chromium, iron, silver and cyanide (CTDEP, 1987a; MacDermid, 1993a,b).

Release Controls:

The area is now completely paved, so no surface water can enter or flow past it. However, the lagoons were not lined and potential exists for ground water contamination (TRC, 1993).

Release History:

Known Releases:

There is no information documenting a release from this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were poted using the Thermoenvironmental Organic Vapor Meter (OVM) Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

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AOC Name: A lok Spill Area

AOC Status: Release

AOC Description:

This AOC comprises an area of mained soil located conside, near a former ink spill collection sump in the north ent of the Common building (CTDEP, 1989; IPC, 1988a,b). The area was discovered in 1987 by IPC personnel (IPC, 1987). After investigation of the spill area, the CTDEP ordered the area to be excavated. Approximately 550 cu. ft. of soil were removed in 1988 (IPC, 1988a,b). The area is now completely paved (TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: 1988 (IPC, 1988a,b)

Wastes Managed at AOC:

This AOC received ink waste from a leak in the former collection sump (IPC, 1988a,b; CTDEP, 1989). The area contained waste pigments, solvents, anilines, resins, and polymers used in ink blending (IPC, 1988a,b; IPC, 1987; MacDermid, 1993a,b).

Release Controls:

There were initially no controls on this AOC, waste could migrate through ground water, and muld corry it off cite. Since the site has been excavated and paved, however, the potential for release has been femiced (IPC, 1988a,b; TRC, 1993).

Release History:

Known Releases:

This AOC was created when waste was released from a collection sump. Release was established with the collection of soil samples that were found to contain contaminants (IPC, 1987; IPC, 1988a,b).

Release Evidence

Soil samples collected from the area indicated the presence of toluene (62,970 ppb), 1,1,1trichloroethane (10 ppb), etnyr benzene (2,910 ppb), and xylene (11,450 ppb) (IPC, 1988a,b). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



4

AOC Name:

Underground Storage Tanks (2)

AOC Status:

Low potential for release

AOC Description:

This AOC consists of a 5,000-gallon underground storage tank for heating oil located on the north side of the Huntingdon Avenue building and a 10,000-gallon fuel oil tank located on the east side of the Huntingdon Avenue building (TRC, 1993). The 10,000-gallon tank is currently empty (TRC,1993).

AOC Start-Up Date: Unknown

AOC Closure Date:

The 5,000-gallon tank is currently active, while the 10,000-gallon tank is empty (TRC, 1993).

Wastes Managed at AOC:

The 5.000-gallon tank contains heating oil (TRC, 1993).

Release Controls:

The materials are contained by the walls of the tank. The tanks are tight-tested every year (TRC, 1993).

Release History:

Known Releases:

There is no history of release from this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

5

AOC Name:

Transformer Vault

AOC Status:

Low potential for release

AOC Description:

This AOC consists of a four-by-four-by-four-foot steel vault containing a 2,000-amp, 240-volt electrical transformer (CTDEP, 1984). The vault is set on a concrete pad in a corner on the south side of the Gear Street building (TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: Current

Wastes Managed at AOC:

The only waste contained by this AOC is transformer oil, containing polychlorinated biphenyls (PCBs).

Release Controls:

The transformer contents are contained by the steel housing and by the concrete base on which it is set (TRC, 1993).

Release History:

Known Releases:

There is no history of release associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



6

AOC Name:

WWTS

AOC Status:

Release

AOC Description:

This WWTS is located in the southwest corner of the Huntingdon Avenue building. It consists of eight 15,000-gallon holding tanks, two 3,000-gallon MOH slurry tanks, 17,000-gallon and 8,000-gallon treatment tanks, a 12,000-gallon equalization tank, a 15-cubic foot filter press and a 26-cubic yard MOH sludge roll-off container, with a total capacity of 60,000 gallons per day (HRP, 1990). The tanks are either steel, concrete or fiber-reinforced plastic (FRP) and are set on an epoxy-coated concrete floor (HRP, 1990; TRC, 1993). Spills from the system are sent through the WWTS again via floor drains (HRP, 1990). The tanks are also connected to a wet scrubber to remove vapors (generally ammonia) generated during treatment. The eight 15,000-gallon tanks are approximately 30 feet tall, with concrete walls four to five inches thick and are open at the top. These tanks are adjacent to the building, with a plastic roof (TRC, 1993).

AOC Start-Up Date:

From at least 1972 to 1978, the WWTS consisted of two settling lagoons. The lagoons were used to precipitate solids, while liquids were decanted and discharged to the municipal sewer system (Gabis (TRC), 1993c). This WWTS was installed without a sludge roll-off container in 1978. The sludge roll-off container was added in 1980 (CTDEP, 1987a; HRP, 1990).

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The WWTS handles waste liquids from the copper etchant, solder surpper, electroless-nickel, dry chemical blending areas and spills from the hazardous waste storage areas (HRP, 1990).

Release Controls:

Possible spills prior to treatment system, are contained by floor trenches, which drain to the holding tanks. The treatment tanks are surrounded by a 3.5-inch epoxy-coated concrete berm, as are the slurry tanks and the filter press (CTDEP, 1992; HRP, 1990; TRC, 1993). The sludge roll-off container is contained in a concrete shed, with a two-foot-seven-inch concrete berm at the door (HRP, 1990; TRC, 1993). The wet scrubber controls vapor emissions from the treatment tanks, but not the holding tanks (CTDEP, 1990c; CTDEP, 1992).

Release History:

Known Releases:

MacDermid's WWTS is designed to discharge to the Waterbury Municipal Sewer System (HRP, 1990; CTDEP, 1990c). There have been three recorded instances of permit violations from the WWTS. In addition, in 1990, there were documented vapor releases from the wet scrubber and holding tanks (Waterbury Republican, 1990).

Release Evidence:

In 1985, the CTDOH detected excess chromium (5.4 ppm) and in 1988 excess cyanide (9.3 ppm) and suspended solids (100 mg/l) (CTDOH, 1985a; CTDOH, 1988). In 1990, MacDermid was cited for improperly collecting and filtering samples, potentially casting all previous data into question (CTDEP, 1990b). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

7

AOC Name:

Dry Chemical Silos (4)

AOC Status:

Low potential for release

AOC Description:

This AOC is located on the east side of the Huntingdon Avenue building and consists of four upright 10,000-gallon steel silos, set on a concrete pad (TRC, 1993). The silos were used to store dry chemicals, but are currently empty (TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The silos were used to store dry sodium carbonate, sodium metasilicate, sodium hydroxide, and sodium hydrogen sulfate (HRP, 1990).

Release Controls:

The tanks are made of steel and set on a concrete pad (TRC, 1993).

Release History:

Known Releases:

There is no history of release associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

8

AOC Name:

East Aurora Street Warehouse

AOC Status:

Low potential for release

AOC Description:

This concrete warehouse contains the Main Hazardous Waste Storage Area, the spot-check QA/QC area, two loading docks and the finished products storage area (HRP, 1990; TRC, 1993). The entire building has an epoxy-coated concrete floor. The Main Hazardous Waste Storage Area, located on the north end of the warehouse, can hold up to 77,000 gallons of waste in drums, on five-tier racks in a 92-foot by 42-foot room (HRP, 1990). This area is surrounded by a 3.5-inch concrete berm and has a 200-gallon collection sump, from which spills can be containerized or sent through the WWTS (HRP, 1990). The loading dock near the Main Hazardous Waste Storage area is not bermed; however, catch basins in the driveway are covered during loading/unloading operations (HRP, 1990). The finished products storage area is in the west side of the warehouse and stores drums of saleable products on a five-tier drum rack prior to shipment (HRP, 1990). The shipping and receiving area along East Aurora Street has a loading dock with a spot check, QA/QC area. This area has a sloped floor leading to floor drains in the interior of the building and a 3.5-inch concrete berm at the garage door (HRP, 1990).

AOC Start-Up Date: The warehouse was built in 1985-1986 (IPC, 1985).

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The warehouse contains finished copper etchant, solder stripper, electroless-nickel solutions, and inks. It also contains all non-flammable, non-combustible wastes, such as waste oil, nitrates, cyanide, crushed drums, etc. (MacDermid, 1993a,b).

Release Controls:

The materials in the warehouse are contained by the building walls, by concrete berms and by sloping floors leading to drains connected to the WWTS (HRP, 1990). The catch basins located in the driveway are covered during loading/unloading operations and during spot checks (HRP, 1990).



Release History:

Known Releases: There is no history of release associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

9

AOC Name:

Pilot Plant (including QA/QC Labs and Small Packaging Area)

AOC Status:

Low potential for release

AOC Description:

The Pilot Plant area is located in the northeast end of the Huntingdon Avenue building and consists of the Pilot Plant, the QA/QC labs and the small packaging area. The Pilot Plant makes small 100-200 gallon batches of products for testing and for customer samples. the entire area has an epoxy-coated concrete floor (HRP, 1990). The QA/QC labs are small testing and research rooms north of the Pilot Plant. The small packaging area is southeast of the Pilot Plant. It is a four-tier drum storage area where small amounts (55 gallons) of finished products are stored prior to shipment (HRP, 1990; TRC, 1993).

AOC Start-Up Date:

The Pilot Plant was moved to this building from the Gear Street building in 1992 (CTDEP, 1992). It is not known when the other areas were begun.

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

These areas experiment with, manufacture, or store small quantities of all the MacDermid products at this facility. These materials would therefore include copper etchant, solder stripper, inks, electroless-nickel plating solution, dry batch chemicals (including packaged cyanide salts) and the components of these materials (HRP, 1990; CTDEP, 1992).

Release Controls:

Spills from the Pilot Plant are led into a collection sump which can either be pumped out into drums or fed into the WWTS (HRP, 1990). The small packaging area is contained by the building walls (TRC, 1993). The QA/QC labs contain spills with the walls of the rooms. Waste from this area is usually stored in containers, then transferred to the satellite storage area located in the Pilot Plant (HRP, 1990).

Release History:

Known Releases:

There are no known releases from this area; however, the QA/QC labs were cited for generally poor waste management (CTDEP, 1984, CTDEP, 1987a).



Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

10

AOC Name:

Main Mixing Area

AOC Status:

Low potential for release

AOC Description:

This area is located in the central part of the Huntingdon Avenue building. Batches of dry chemicals, including metal cyanide salts, are repackaged from 55-gallon drums into smaller units for sale (HRP, 1990). The area was formerly used to blend copper plating solution (CTDEP, 1989). The area has an epoxy-coated concrete floor, floor drains to the WWTS, and a dust collector (CTDEP, 1992).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

Wastes generated from this area included dust from the chemicals and drum washwater (CTDEP, 1992; HRP, 1990).

Release Controls:

Spills in the area are fed into the WWTS. Water from drum cleaning is fed into the WWTS via floor drains. Dust is collected by dust collectors and water used to clean these collectors is also sent to the WWTS (HRP, 1990; CTDEP, 1992).

Release History:

Known Releases: There is no release history associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



11

AOC Name:

Satellite Storage Areas (3)

AOC Status:

Low potential for release

AOC Description:

Satellite storage areas are located in the Pilot Plant (one) and the ink manufacturing area (2) (HRP, 1990). Each area contains one or two 55-gallon drums, surrounded by a four-inch, epoxy-coated angle-iron berm bolted to the floor (HRP, 1990). The drums are gradually filled with compatible wastes and are removed and replaced when they are filled (HRP, 1990).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

Satellite storage areas contain drums of mixed waste. The ones in the ink manufacturing area largely contain waste ink rags, solvents, and pigments, while the one in the Pilot Plant contains miscellaneous plating solution, solvents, acids and other materials connected to the QA/QC labs (HRP, 1990; CTDEP, 1992).

Release Controls:

The satellite storage areas are contained by the four-inch angle-iron berms (HRP, 1990).

Release History:

Known Releases: There is no history of release associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



Flammable Rack Storage

AOC Status: High potential for release

AOC Description:

The Flammable Rack Storage area consists of an outdoor, four-tier drum rack, approximately 40 feet high, 25 feet deep and 40 feet long (TRC, 1993). Raw flammable chemicals are stored secured in drums on the rack, on the grass between the Gear Street and Huntingdon Avenue buildings (TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

Materials stored in this AOC include raw flammable chemicals such as alcohols, solvents, acetone, etc. (MacDermid, 1993a,b).

Release Controls:

The drums are secured to the rack and the rack is outside (TRC, 1993). There are fire hydrants nearby, but there is no spill containment. Catch basins in the driveway could channel spills to Steele Brook or spills might be absorbed by the soil on which the rack is set (TRC, 1993).

Release History:

Known Releases: There is no history of release from this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 Ev lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



13

AOC Name:

Chemical Storage Area: Gear Street Building

AOC Status:

Low potential for release

AOC Description:

The Chemical Storage Areas in the Gear Street building consist of three sections: the less-than-90-day storage area, the flammable storage area and the combustible storage area. The entire building has an epoxy-coated concrete floor (HRP, 1990; TRC, 1993). The less-than-90-day storage area is located in the southwest corner of the building. It was formerly the N-methyl pyrolle recycling room. The area is a drum storage area, approximately 40 feet long and 25 feet wide, with a four-inch epoxy-coated angle-iron berm (HRP, 1990; TRC, 1993). The flammable storage area is located in the northern end of the building, along the eastern wall. It is designed to store up to 16 drums of waste in an eight-foot by ten-foot area and is surrounded by a four-inch angle-iron berm (HRP, 1990). Outside the bermed area are trenches leading to the WWTS (HRP, 1990). The combustible storage area is located in the south end of the building. It is designed to store 54 55-gallon drums and four 330-gallon storage totes (HRP, 1990). This area is surrounded by a four-inch epoxy-coated angle-iron berm (HRP, 1990).

AOC Start-Up Date:

The less-than-90-day storage area was opened in 1992; the start-up dates for the other areas are not known (CTDEP, 1992).

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The less-than-90-day area may store non-combustible, non-flammable wastes such as ink waste, copper and other sulfates, filters, and tin or copper chloride (CTDEP, 1992). It was formerly used to store N-methyl-pyrolle (HRP, 1990; TRC, 1993). The flammable storage area is used to store waste flammable solvents such as acetone, isopropanol, methanol, and ether (MacDermid, 1993a,b). The combustible storage area is used to contain combustible materials such as acetate, anilines, and acrylimides (MacDermid, 1993a,b).

Release Controls:

The areas are all contained by the walls of the rooms, the epoxy-coated concrete floor, and the four-inch, epoxy-coated angle-iron berms (HRP, 1990; TRC, 1993). In addition, the flammable storage area is connected to the WWTS by floor drains just outside the bermed area (HRP, 1990).

Release History:

Known Releases: There no release associated with this AOC.

Release Evidence:

No analytical data exist to document a release from this AOC. No detections were noted with the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp, during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

14

AOC Name:

Bulk Waste Loading and Storage Area

AOC Status:

Release

AOC Description:

This area is the main entrance for the loading and unloading of copper etchant at the MacDermid facility. It is located on the northwest end of the Huntingdon Avenue building and consists of the loading dock, the bulk spent copper etchant storage tanks, and the drum washing area (HRP, 1990; CTDEP, 1990a; TRC, 1993). There are four bulk storage tanks, three 8,000-gallons and one 5,000 gallon used to hold spent copper etchant after it has been unloaded from tanker truck or drums at the loading dock (HRP, 1990; CTDEP, 1990a). The loading dock is used to wash drums after unloading. The entire area has an epoxy-coated concrete floor (HRP, 1990; TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

Virtually the only waste managed here is spent copper etchant (HRP, 1990).

Release Controls:

The bulk storage tanks are surround by a two-foot-seven-inch epoxy-coated concrete berm (HRP, 1990). The loading dock has a floor that slopes toward the interior of the building and which channels water to a collection sump and from there to the WWTS (HRP, 1990). The catch basins outside the building are now covered during drum washing and loading/unloading operations (CTDEP, 1992; HRP, 1990).

Release History:

Known Releases:

On February 10, 1990, a CTDEP inspector noticed that water from the drum washing operation was being allowed to flow into the catch basins leading to Steele Brook (CTDEP, 1990a). The CTDEP requested an injunction from the State Attorney General to stop the practice (CTDEP, 1990a).

Release Evidence:

Samples collected from the wash water contained 320 ppm copper and 5.6 ppm lead and the sediment at the outfall into the brook contained 24 ppm copper (CTDEP, 1990a). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

TRC

15

AOC Name:

Copper Etchant Processing Area

AOC Status:

Low potential for release

AOC Description:

This area is located in the west-central section of the Huntingdon Avenue building (TRC,1993). It contains 13 processing tanks that receive up to 3,000,000 gallons per year of spent copper etchant and recycle it to useable product. The processing tanks all rest on an epoxy-coated concrete floor and lead to three 6,300-gallon finished product tanks adjacent to the loading dock (HRP, 1990).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC: This area processes spent copper etchant (HRP, 1990).

Release Controls:

Although this area is not bermed, all the spills are channeled to floor drains leading directly to the WWTS (HRP, 1990).

Release History:

Known Releases: There is no history of release from this AOC.

Release Evidence:

No analytical evidence exists to document a release of hazardous materials from this AOC. No detections were noted with the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp, during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

16

AOC Name:

Ink Manufacturing Area

AOC Status:

Low potential for release

AOC Description:

This area is located in the center of the Gear Street building. It contains tanks and equipment necessary for the blending of inks for the printed circuit board industry. The area contains three roller mills for the crushing of dry pigment powders and a series of 140-gallon vats for the blending of the pigments with solvents, acrylimides anilines, resins and other materials necessary to make ink (CTDEP, 1984; CTDEP, 1987a, CTDEP, 1989, CTDEP, 1990c; CTDEP, 1992).

AOC Start-Up Date: Unknown

AOC Closure Date: Current

Wastes Managed at AOC:

The materials managed at this AOC include resins, polymers, anilines, solvents, powder pigments, solvents and acrylimides (CTDEP, 1992; CTDEP, 1987a, MacDermid, 1993a).

Release Controls:

This area is contained by the epoxy-coated concrete floor and by the walls of the room. Spills are mopped up with rags and these are stored in the satellite storage areas in this building, along with waste solvents, pigments, and polymers (CTDEP, 1990c). There used to be a collection sump at the north end of the building that discharged to the municipal sewer system and also leaked to the soil, but that is now closed (CTDEP, 1990c).

Release History:

Known Releases:

There are no release directly associated with this AOC. For information concerning the former collection sump, see AOC #3, Ink Spill Area.



Release Evidence:

No analytical evidence exist to document a release from this AOC. No detections were noted with the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

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17

AOC Name:

Solder Stripper Reclaim Area

AOC Status:

Low potential for release

AOC Description:

This area is located in the northwest end of the Gear Street building. Spent solder stripper is pumped from loading docks on the north end of the building into a 3,000-gallon settling tank (HRP, 1990). After lead fluoride precipitates out and is collected in drums, the liquid is pumped through two 1,000-gallon electrolytic cells, two 1,500-gallon poly tanks and a filter press (HRP, 1990). This entire operation is conducted on a sloping epoxy-coated concrete floor leading to floor drains connected to the WWTS (HRP, 1990).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The main waste managed at this AOC are spent solder stripper.

Release Controls:

Spills in this area are contained by the walls of the room and by the floor drains leading to the WWTS (HRP, 1990).

Release History:

Known Releases: There is no history of release associated with this AOC.

Release Evidence:

No analytical evidence exist to document a release from this AOC. No detections were noted using the Thermoenvironmental OVM Model 501-A, 10.2 eV lamp, during TRC's VSI, May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.



18

AOC Name:

Electroless-Nickel Area

AOC Status:

Low potential for release

AOC Description:

This area is located along the western wall of the Gear Street building. It is a manufacturing area for electroless-nickel plating solutions and contains eight tanks, with a capacity of up to 1,200-gallons that process up to 3,000 gallons of product per week (CTDEP, 1992). This area has an epoxy-coated concrete floor and a floor trench for spills. The liquid in the floor trench is tested for nickel; liquid containing nickel is filtered before being added to the WWTS (CTDEP, 1992). There is also a wet scrubber in this area to eliminate ammonia vapors generated during manufacture (CTDEP, 1992).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The wastes managed in this area consist mainly of nickel solution and ammonia (CTDEP, 1992).

Release Controls:

Spills in this area are contained by the walls, by the concrete floor, by the wet scrubber and by the floor trench designed to collect spilled nickel solutions (CTDEP, 1992).

Release History:

Known Releases: There is no history of release associated with this AOC.

Release Evidence:

No analytical evidence exists to document a release from this AOC. No detections were noted with the Thermoenvironmental OVM, Model 501-A, 10.2 eV lamp, during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

19

AOC Name:

Acid Tank Farm

AOC Status:

Low potential for release

AOC Description:

The Acid Tank Farm is a set of five 3,000-gallon steel tanks containing raw hydrochloric acid, sulfuric acid, nitric acid, and hydrogen peroxide (TRC, 1993; Gabis (TRC), 1993c). This area is located outside, on the southwest side of the Huntingdon Avenue building (TRC, 1993). The tanks are set on asphalt, but are surrounded by a 2-3 foot concrete berm and fence (TRC, 1993).

AOC Start-Up Date: Unknown

AOC Closure Date: Currently in use.

Wastes Managed at AOC:

The materials managed at this AOC included hydrochloric, nitric, and sulfuric acid and hydrogen peroxide (TRC, 1993).

Release Controls:

Spills from this area are contained by the concrete berm (TRC, 1993).

Release History:

Known Releases: There is no history of release associated with this AOC.

Release Evidence:

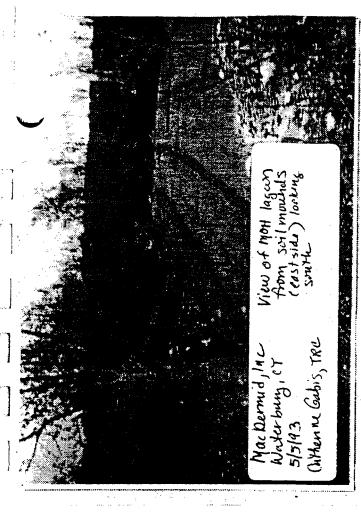
No analytical evidence exists to document a release from this AOC. No detections were noted with the Thermoenvironmental OVM, Model 501-A, 10.2 eV lamp, during TRC's VSI on May 5, 1993 (TRC, 1993). Information pertaining to the volume, toxicity, and mobility of wastes at this AOC is not available.

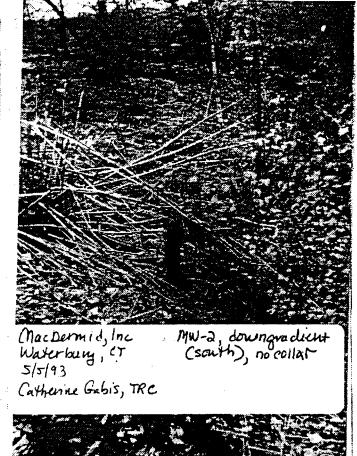


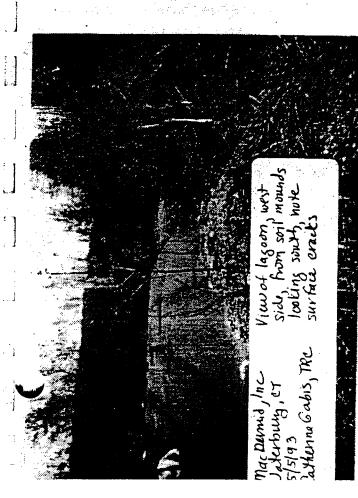
APPENDIX B

SELECTED PAST REGULATORY INFORMATION AND INVESTIGATIVE DATA



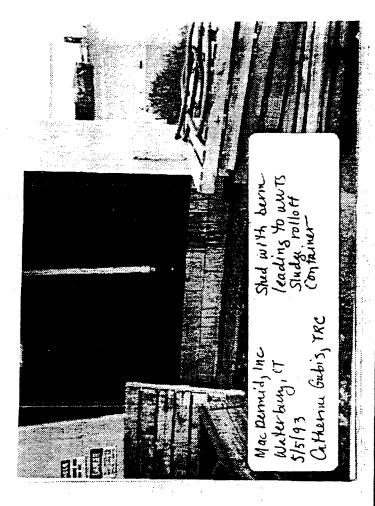






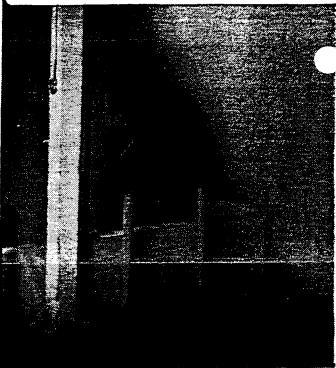


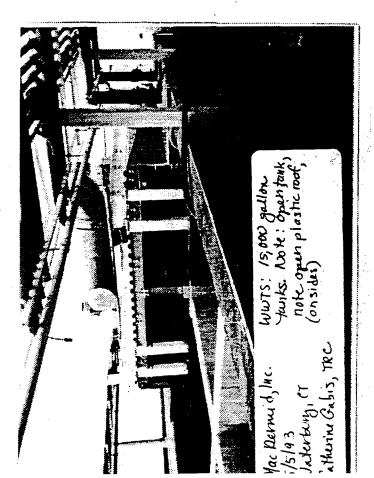
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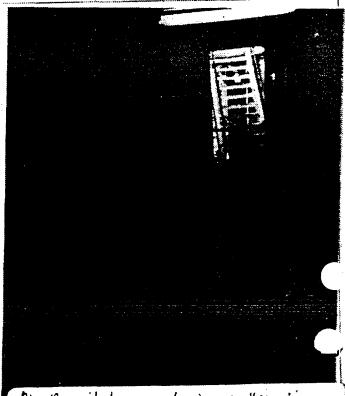


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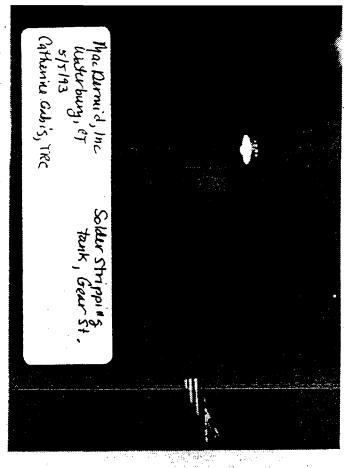
Flammable storage area, Gear St. building.

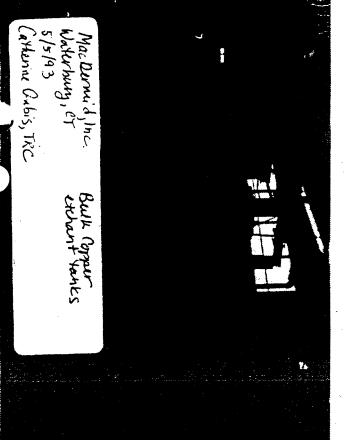


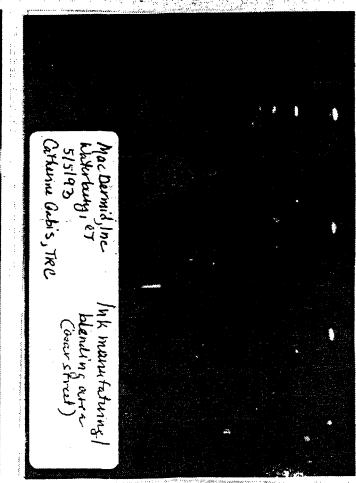


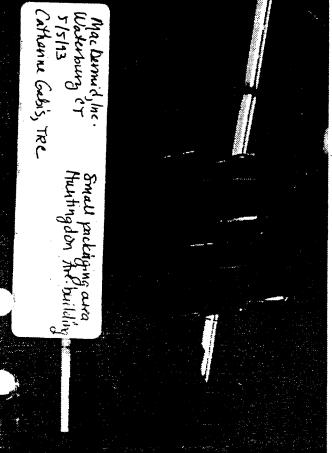


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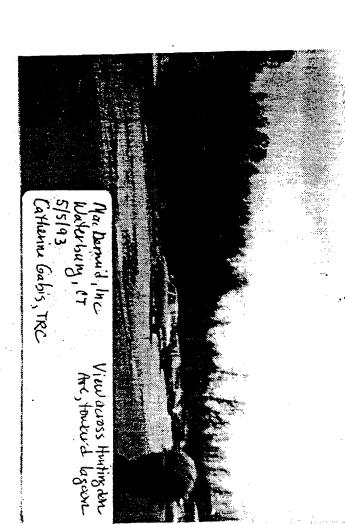






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Date: March 16, 2001 Rev. No. 0

APPENDIX C BORING LOGS

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Associates, Inc.

Date: March 16, 2001 Rev. No. 0

Property Control of the Control of t	BORING L	OGS INDEX					
Boring Number	Date of Installation	Former Designation	Page				
TP-1	4/18/85	TP-1	1				
TP-2	4/18/85	TP-2	2				
TP-3	4/18/85	TP-3	3				
TP-4	4/18/85	TP-4	4				
TP-5	4/18/85	TP-5	5				
MW-101	4/1/86	OW-W5-1C & MAC-6	6				
MW-102	3/3/86	OW-WB-2B & MAC-5	7				
MW-103	1/12/95	GZ-2	8				
MW-104	Not Available						
MW-105	2/15/95	GZ-7	10				
MW-106		Not Available					
MW-107		Not Available					
MW-108	2/16/95	GZ-9	12				
MW-109	2/15/95	GZ-8	14				
MW-110		Not Available					
MW-111	1/13/95	GZ-6	16				
MW-112	1/13/95	GZ-3	18				
MW-113	1/13/95	GZ-5	20				
B-1	1/12/95	GZ-1	22				
B-2	2/16/95	GZ-11	23				
B-3	2/16/95	GZ-10	24				
B-4	1/13/95	GZ-4	25				

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TEST PIT LOG

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TEST PIT LOG

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TEST PIT LOG

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TEST PIT LOG

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TEST PIT LOG

5 of 5

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w					7.p	-		Run #4: Cored from 18*		6 				
		ļ		1	9.0			Recovered 50° of same le	edge.		-	,	┼	
					9.D 6.D							-	+	
- 20					7.D			Run #5: Cored from 23*	6* to 26*	. Recov-				
	···	ļ			5.D			ered 100% of same ledge.	•	,		ļ	┼	
l					7.0 5.0				e [†]			 	+-	
					7.0	•		Run #6: Cored from 26!	to 311.	Recovered				
					6.0			57" of same ledge.					 	
					_4.D 7.D	(6™) ■		-			—	+-	+	
		1			5.0	**	,	5 17. O 5 5	4- 361	3		1	1	
- 30					5.0	•		Run #7: Cored from 31' 60" of same ledge.	CO 10.	recovered			I	
		 			_6_b	•		TO TE PERO EUGGO			-	 	+-	
		-		├	7.b 5.b	**		·			-	 	+	
					6.D	•							工	
					6.0	=							+	
			-		5.D	.	36'	Bottom of bor:	ing 36'.	· · · · · · · · · · · · · · · · · · ·	-		+	
_					_6.b			NOTE: Installed 2" PVC			1			
						-		pipe w/10' screen	n 36' bel	ow grade,			\bot	
- 40		<u> </u>	<u> </u>					2° above grade.	5094	<u> </u>	<u> </u>	!		
•	ORILLER:	I	E.P.		Pros			0%, linle = 10-20%, some = 20-35%, and = 35- E TYPE COHESIONLESS		TOTAL FOO	IAGE:			
	HELPER:		o.c.				c = c	ORED W = WASHED . 0-10 LOOSE		Earth Baring		ft.		
	SOILS ENG	NEER:				 	SS = SPLIT SPOON 10-30 MED. C UP = UNDISTURBED PISTON 30-50 DENSE TP = TEST PIT 50+ VERY E			COMP. Rock Coring				
·==	PRILLING II	NSPECTO	· —					TEST PIT 50+ VERY DEF UNDISTURBED THINWALL		HOLE NO.			,	
												٠.		

GZA GEOENVIRONMENTAL, INC GZ-2 Boring No. Consulting Engineers/Geologists/Environmental Scientists Page 2 of MACDERMID, INC 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 WATERBURY, CONNECTICUT 41462 File No. Chkd. By: **TFC** ring Co. GZA GEOENVIRONMENTAL, INC. Casing Sampler Groundwater Readings S.S. Al Augustine Туре **HSA** Date Time Depth Casing Stab. Time 2* O.D. 1/12/95 **GZA** I.D./O.D. 4-1/4" 1335 30.3 30.0 15 minutes GeoEnvironmental Jim White Rep. 140 LB Hammer Wt. ate Start 1/12/95 End 1/12/95 30" Hammer Fall Location Other GS.Elev. Datum Sample Information Sample Equipment Installed Stratum R M K S Ť N W G S Depth (Ft.) Field Description & Classification Description No Test Data Reć Medium dense, brown, fine to medium SAND, some Organic Silt 24/18 0-2 8-8 ND TOPSOIL 1.0 6-6 Natural Backfill FILL 5-7 ND S-2 24/8 Loose, brown, fine to medium SAND, little Silt 3-1 2-2 2" PVC riser 0'-25' 9.0' 10 S-3 24/12 10-12 Dense, light brown, fine to medium SAND and fine SAND lens, trace Silt ND 10-17 17-17 S-4 Medium dense, light brown, fine SAND, trace Silt 24/18 15-17 ND 4-5 6-7 FINE SAND 20 24/18 20-22 S-5 5-6 ND Medium dense, brown, fine SAND, trace (+) Silt 7-8 Bentonite seai . 21'-23' ND S-6 25-27 8-9 Filter 24/18 Medium dense, brown, fine SAND, trace (+) Silt sand 23'-35' 8-8 2" PVC screen 25'-35' Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected. Results in parts per million (ppm) relative to a benzene standard. m а r k ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other Water level factors than those present at the time measurements were made. GZ-2 Boring No.

GZA GEOENVIRONMENTAL, INC. Boring No. GZ-2 Consulting Engineers/Geologists/Environmental Scientists Page of 2 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 MACDERMID, INC. WATERBURY, CONNECTICUT File No. 41462 TFC Chkd. By: Ting Co. GZA GEOENVIRONMENTAL, INC. Casing Sampler Groundwater Readings Al Augustine **HSA** Date Depth Casing Stab. Time eman Type S.S. Time I.D./O.D. 4-1/4" 2" O.D. 1/12/95 1335 30.3 30.0 15 minutes GZA GeoEnvironmental Jim White Rep. Hammer Wt. 140 LB. te Start 1/12/95 End 1/12/95 Hammer Fall 30" Other Location GS.Elev. Datum CB SL Sample Information Equipment Installed Sample Stratum N W G S Field Test Data Pen./ Rec. Depth (Ft.) Ť Blows Description & Classification Description No. Medium dense, brown, fine SAND, trace (+) Silt (sample wet) 24/20 30-32 10-10 ND Filter 10-12 sand 23'-35' 2" PVC FINE SAND screen 25'-35' 35 S-8 24/18 35-37 3-4 ND Loose, brown, fine SAND, little (+) Silt 4-3 37.0 END OF EXPLORATION 40 50 55 2. Sample S-7 was wet. m а r k atification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve tadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other Water level factors than those present at the time measurements were made. Boring No. GZ-2

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists GZ-7 Boring No. Page 2 MACDERMID, INC. WATERBURY, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41462 TFC Chkd. By: ring Co. GZA GEOENVIRONMENTAL, INC. Groundwater Readings <u>Casing</u> Sampler Stab. Time S.S. Time Al Augustine **HSA** Date Depth Casing **#**eman Type 2" O.D. 2/15/95 1235 30.0 10 minutes GZA I.D./O.D. 4-1/4" 29.6 GeoEnvironmental Rep. Ale 140 LB. Alex Roseweir Hammer Wt. ate Start 2/15/95 30" End 2/15/95 Hammer Fall Location Other Datum GS.Elev. CB SL NW GS Sample Information Equipment Installed Sample Stratum R M K S Blows/6" Pen./ Rec. Depth (Ft.) Field Description & Classification Description curbbox Ĥ No. Test Data flushmount ASPHALT 0-2 Dense, brown, fine to coarse SAND and GRAVEL, little Asphalt, trace Silt 1. S-1 24/16 39-21 ND 17-17 Backfill 0.5'-23.0' 5-7 0.7 Dense, brown, fine to coarse SAND and GRAVEL, trace Silt S-2 24/16 13-14 SAND AND GRAVEL 23-28 2" PVC riser 0'-27.0' 10 S-3 10/8 10-10.8 27-0.9 Very dense, brown, fine to coarse SAND and GRAVEL, trace Silt 100/4 15.0' **S-4** 24/18 15-17 47-11 0.9 Medium dense, light brown, fine SAND, little Silt 11-11 FINE SAND 20.01 20 20-22 S-5 24/20 8-8 Medium dense, grey-brown, fine SAND and SILT 0.9 7-7 SAND AND SILT Bentonite seal 23.0'-25.0' Very dense, brown, fine SAND and SILT, little fractured Rock 25-27 0.7 S-6 24/12 46-65 Filter sand 25.0'-37.0' 37-11 2" PVC screen 27.0'-37.0' 30.0 Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected. Results are in parts per million (ppm) relative to a benzene standard. m а r k ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Water level Boring No. GZ-7

27 ! Vei (20)	Naek 1 mon, (3) 875	Road Connect -7655	cticut 060	66	= ***	IC. ntal Scientist		MACDERMID, INC. WATERBURY, CONNECTICUT					Boring No. Page 2 File No. Chkd. By:	of 41	2 462 TFC
, Jou	ing Co				IENTAL,		Casing	Sampler	r	1		r Readings			
	eman		Al August	ine		Тур		S.S.	Date	Time	Dep		Casing	Stab. Ti	
GZ/ Geo	Envir	onmen	tal			I.D.	/O.D. 4-1/4"	2" O.D.	2/15/95	1235	29.	6'	30.0'	10 minu	ites
Rep		<u> </u>	lex Rose			Han	nmer Wt.	140 LB.					<u> </u>		
		2/15/	95	End_	2/15/95	Han	nmer Fall	30"					<u> </u>		
Loca	tion					Oth	er		<u> </u>				<u> </u>		
GS.I				Datum	1				······································	· · · · · · · · · · · · · · · · · · ·					
D P T	C B S L			nple Infor		,	S	Sample		Stratum	١ ١	R M	Equipment	Installed	1
T H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Description	& Classification	I	Description	1	R M K S			_
		S-7	24/18	30-32	6-6	0.4	Medium dense, brown SAND (sample wet)	SILT and fine			ŀ	1.	ĦL	Filter san	nd
					9-8		(Sumple wet)						HI	25.0'-	
						ļ			ļ	SILT			出丨		
				-					.]	SAND				2" PVC	
35													∄∥ *	27.0'-	·37.0'
35		S-8	24/22	35-37	5-7	0.9	Medium dense, red-bro	own SILT and					H		
ll					8-11		line SAND			37.0'		2.	\mathbf{H}		
									[-	END O	F				
j									-	AI LOKA	110.	-			
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R e m a r k					using a T.F. ion (ppm) ished with		toionization Detector. I penzene standard.	ND indicates None	Detected.			1_			
Lra1	tific ings	ation have	lines been ma	represent de at tir	t approxi	imate bound under condi	aries between soil tions stated. Fluc	types, transit	ions may be oundwater m	gradua nay occu	l. Wa	ter	level other		:
facto	ors t	han t	hose pr	esent at	the time	measureme	nts were made.	•					Boring No.	GZ	Z-7

G	ZA C	EOE	NVIR	ONMEN	TAL, IN	iC.		Boring No.					GZ-9				
	nsum Naek	•	meers/O	cologists/ i	SHVITOITING	ntal Scientist	s	MAC	DERMID,	INC		P	Page 1 of				
Ve	mon, 3) 875	Conne	cticut 060	166				WATERBUI				F	ile No.	41462			
(20	13) 6/3	- 7000	_									С	hkd. By:	TFC			
D _{OI}	ing C	o. GZA	GEOE	VVIRONN	IENTAL,	INC.	Casing	Sampler	Groundw			er Readings					
1	eman		Al Augus	tine		Тур	e HSA	S.S.	Date Time			th	Casing	Stab. Time			
GZ		onmer	ntal			I.D.	/O.D. 4-1/4"	2" O.D.	2/16/9	5 0905	29.	5'	30.0'	10 minutes			
Rep			Alex Rose	weir		Har	nmer Wt.	140 LB.									
at	e Star	t 2/16,	/95	End	2/16/95	Har	nmer Fall	30"									
Loc	ation					Oth	er										
GS.	Elev.			Datun	n												
D	C B S L	<u> </u>	Sai	mple Infor	mation			Sample	1	Stratum	1	R M	Equipmen	t Installed			
D P T H	N W G S	1	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	Description	& Classification		Description	1	K S		urbbox shmount			
		S-1	24/10	0-2	22-15	ND	Medium dense, brown SAND and GRAVEL	, fine to coarse	7	ASPHA	T	1.		· • •			
					20-10		SAND and GRAVEL	, trace Siit		1.5"				Da-l-51			
]				- 1			Backfill 0.5'-21.0'			
				_			}				1						
,																	
		S-2	24/10	5-7	2-1	ND	Loose, brown, fine to dittle fine Gravel, trace	coarse SAND,									
					6-17		Inthe time Oraven, trace	. Sitt		•	1	44. 34		2" PVC ser			
					<u> </u>				1					0'-25.0'			
											ł	ġ.					
10							[- [SAND AND	- [1 100					
."		S-3	24/15	10-12	20-7	0.9	Medium dense, brown. SAND, little fine to co		İ	GRAVE	ᅵ	353					
					21-41		trace Silt (some black : observed)	staining	1								
							,		1		ļ	[S.	4) (25°)				
			ļ														
15				·	<u> </u>				- 1					_			
		S-4	24/14	15-17	37-23	0.1	Dense, light brown, fin SAND and GRAVEL,	e to coarse trace Silt	1								
ł					14-14		,		ł		ļ						
					ļ				1		- 1						
	<u> </u>				<u> </u>							-					
20	 							_	1					~			
		S-5	10/8	20-20.8	42-	0.1	Very dense, light brown coarse SAND and GR	n, fine to AVEL, trace Silt	ł				4 14	_			
			<u> </u>		100/4*				ļ					entonite seal			
		····			ļ				1					21.0'-23.0'			
									-	24.0'	\dashv						
25		<u> </u>	01/55	25.25			haratuu a saara						H	-			
		S-6	24/21	25-27	8-9	0.3	Medium dense, light by SAND, some Silt	rown, fine]	CANE			HI-	Filter sand			
		 			10-14					SAND AND			\square	23.0'-35.0'			
									1	SILT				2" PVC			
}													⊟∥°	25.0'-35.0'			
-		Samal	<u> </u>	ed in field	using a T	3 1 500D DF-	otoionization Detector.	NID indicates None	Detected								
e m		Resi	es screen alts are in et at 35' o	parts per	million (p	om) relative t	o a benzene standard.	IAD Indicates IAque	Detection.								
a	3.	Spoils	had swee	t odor.													
t k																	
1 s	+;4:-			Poppos	t anneau	imata barra	danias hatusan sail	types technicis	one may	he geodus	1.10	ater	امرما				
-ead	lings	have	been ma	de at ti	mes and u	under condi	daries between soil itions stated. Fluc ants were made	ctuations of gro	oundwater	may occu	due	to	other				
Tact	ors t	.nan t	nose pr	esent at	the time	= measureme	ents were made.					В	oring No.	GZ-9			

27 Ve (20	Naek mon, 3) 875	Road Connec -7655	eticut 060	66		IC. ntal Scientist		WATERBUR	DERMID, II Y, CONNE	CTICUT		1	Boring No. Page 2 File No. Chkd. By:	GZ-9 2 of 2 41462 TFC		
) ~ ~ (ring Co	o. GZA	GEOE	VIRONN	IENTAL,		Casing	Sampler		Groun	ndwate	dwater Readings				
\ <u> </u>	eman		Al August	ine		Тур		S.S. Date Time I			De	oth	Casing	Stab. Time		
GZ Ge		onmen	tal			I.D.	/O.D. 4-1/4"	2/16/95	0905	29.	5' ·	30.0'	10 minutes			
Rep).		Alex Rose	weir		Han	mmer Wt. 140 LB.							<u> </u>		
11	te Star	2/16/	95	End	2/16/95	Han	nmer Fall	30"								
Loc	ation					Oth-	er						<u> </u>			
GS.	Elev.			Datum	n											
D	C B S L		Sar	nple Inform	mation]	Sample		Stratum	١	R M	Equipmen	Installed		
T H	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/ 6"	Field Test Data	Description	& Classification	r	Description	,	K S				
		S-7	24/16	30-32	7-6	ND	Medium dense, fine Sa (sample wet)	AND and SILT	1		1	1.	HL	Filter sand		
ł					7-9		(sample wer)						\mathbb{H}	23.0'-35.0'		
1					1	İ			ł	ETNIC	1		HL	2" PVC		
										FINE	-			reen		
1										AND SILT			HI	25.0'-35.0'		
35		S-8	24/20	35-37	7-7	ND	Medium dense, brown	, fine SAND and						_		
					10-10		SILT			37.0'		İ				
		•								END O	F					
									F	XPLORA'	HON	l		•		
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l e		Resu	ilts are in	narts per i	million (pr	m) relative to	toionization Detector. I o a benzene standard.	Indicates None I	Jetectea.							
m a	3.	well so Spoils	had swee	t odor.	ished with	carobox.								,		
r k																
' s	L												- 1			
eac	ititio Jings	ation have	lines been ma	represeni de at tir	τ approxi mes and υ	ımate bound under condi	laries between soil tions stated. Fluc	types, transitions of gro	ons may b undwater i	e gradua nay occu	ı. W r due	to	other			
fact	ors t	nan t	nose pr	esent at	the time	measureme	ents were made.						Boring No.	GZ-9		

GZA GEOENVIRONMENTAL, INC. Boring No. GZ-8 Consulting Engineers/Geologists/Environmental Scientists Page of 2 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 MACDERMID, INC. WATERBURY, CONNECTICUT File No. 41462 TFC Chkd. By: ring Co. GZA GEOENVIRONMENTAL, INC. Casing Sampler Groundwater Readings Casing Stab. Time Al Augustine Type **HSA** S.S. Date Time Depth ∕eman I.D./O.D. 4-1/4" 2" O.D. 2/15/95 1515 29.1 30.0 5 minutes GeoEnvironmental Rep. Ale Alex Roseweir Hammer Wt. 140 LB. ste Start 2/15/95 End 2/15/95 30* Hammer Fall Location Other GS.Elev. Datum CB SL Sample Information Equipment Installed D Sample Stratum R M K S N W G S Blows/ Field Description & Classification Description Ĥ Test Data No. Reć. (Ft.) ASPHALT Very dense, brown, fine to coarse SAND and GRAVEL, trace Silt 24/20 0-2 60-60 0.7 1 43-23 Backfill 0.5'-21.0' S-2 24/1 5-7 0.5 Loose, brown, fine to coarse SAND, 6-4 trace fine Gravel 2-3 2" PVC riser 0'-25.0' SAND AND GRAVEL 10 S-3 2/0 10-10.1 100/2" No recovery Very dense, light brown, fine to coarse SAND and GRAVEL, trace Silt S-4 24/15 15-17 19-26 0.4 58-76 19.0' 20 S-5 24/21 20-22 24-14 0.7 Medium dense, grey-brown, fine SAND and SILT 15-14 Bentonite scal 21.0'-23.0' SAND AND SILT 25 24/24 25-27 1.1 Filter sand 23.0'-35.0' S-6 5-6 Medium dense, grey-brown, fine SAND and SILT 8-8 2" PVC screen 25.0'-35.0' 1. Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected. Results are in parts per million (ppm) relative to a benzene standard.

2. Well set at 35.0' depth; finished with curbbox.

3. Split spoon on Sample S-8 was copper color.

4. Spoils had sweet odor. m a r k ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve Eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other Water level factors than those present at the time measurements were made. Boring No. GZ-8

GZA GEOENVIRONMENTAL, INC Boring No. GZ-8 Consulting Engineers/Geologists/Environmental Scientists Page 2 of MACDERMID, INC. WATERBURY, CONNECTICUT 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41462 Chkd. By: TFC Poring Co. GZA GEOENVIRONMENTAL, INC. Groundwater Readings Casing Sampler **HSA** S.S. Date Time Depth Casing Stab. Time /eman Al Augustine Type 1515 I.D./O.D. 4-1/4" 2" O.D. 2/15/95 29.1 30.0 5 minutes GZA GeoEnvironmental Rep. Alex Roseweir Hammer Wt. 140 LB. ate Start 2/15/95 End 2/15/95 Hammer Fail 30" Other Location GS.Elev Datum R M K S C B S L Equipment Installed Sample Information Sample Stratum N W G S Pen./ Depth Blows/ Field Description & Classification Description No. Reć. (Ft.) Test Data Loose, orange-brown, fine SAND and SILT (sample wet) 24/19 30-32 3-4 5.1 1 Filter sand 23.0'-35.0' 6-10 FINE SAND AND SILT 2" PVC screen 25.0'-35.0' 35 Very loose, brown, fine SAND and SILT 3. 4. 24/24 S-8 35-37 1.1 37.0 2-3 END OF EXPLORATION 40 50 55 Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected. Results are in parts per million (ppm) relative to a benzene standard.
 Well set at 37.0' depth; finished with curbbox.
 Split spoon on Sample S-8 was stained copper color.
 Spoils had sweet odor. m а r catification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other Water level factors than those present at the time measurements were made. Boring No. GZ-8

Engineers/Groad onnecticut 060/655 GZA GEOEN Al August Immental Jim White 1/13/95 Sar No. Pen./ Rec.	VVIRONM		INC. Typ I.D. Han	Casing HSA O.D. 4-1/4*	MACI WATERBUR Sampler S.S. 2° O.D.	Date	Groui Time	Depth	Readir	No. I. By: ngs Casing	of 4146
GZA GEOEN Al August mental Jim White 1/13/95 Sar Pen./	NVIRONM ine End 1		Typ I.D. Han	HSA /O.D. 4-1/4*	Sampler S.S.	Date	Groui Time	Depth	Chkd Readir	I. By: ngs Casing	T
GZA GEOEN Al August numental Jim White 1/13/95 Sar Pen./	End 1		Typ I.D. Han	HSA /O.D. 4-1/4*	S.S.		Time	Depth	Readir	ngs Casing	
AJ Augusi nmental Jim White 1/13/95 Sar Pen./	End 1		Typ I.D. Han	HSA /O.D. 4-1/4*	S.S.		Time	Depth	C	Casing	Stab. Tin
Inmental Jim White 1/13/95 Sar Pen./	End 1	1/13/95	I.D. Han	/O.D. 4-1/4"				<u> </u>			Stab. Tim
Jim White	End 1	1/13/95	Han	·	2" O.D.	2" O.D. 1/13/95 1345		20.01			
Jim White	End 1	1/13/95				-, -5/5	3 1343	29.8'		30.0'	10 minute
Sar Pen./		1/13/95		nmer Wt.	140 LB.		_				
Pen./	Dat		—— Han	nmer Fall	30"						
Pen./	D	******	. Oth	er							
Pen./	Datum	-	· · · · · · · · · · · · · · · · · · ·	1		т					
No Rec	nple Inforn	nation	·	s	ample	[Stratum	M	<u> </u>		Installed
110.	Depth (Ft.)	Blows/ 6"	Field Test Data	Description	& Classification		Description	K			curb box
S-1 24/15	0.5-2.5	10-22	ND	Dense, brown, fine to	coarse SAND,		ASPHA	LT 1		1	
		18-23		trace (+) Silt			0.5'				
]			Natural
	-									b	ackfill 0'-21.0'
5-2 24/18	5-7	7-13	ND	Dense, brown, fine to c	oarse SAND,	1					
		34-65	,	some fine to coarse Gr (+) Silt	avel, trace	- 1	SAND	=	-		2" PVC
	******			·		1	GRAVE	L			0'-23.0'
						1		.			
						.					
-3 24/12	10-12	5-15	ND	Dense, brown, fine to c	oarse SAND,						
		22-14		(+) Silt	avel, trace	ĺ					
							13.0'				
						-					
						}					
-4 24/18	15-17	5-7	ND	Medium dense, brown,	fine SAND, some	- 1		Ì			
		8-9		(+) Sill (stratified)							
						1					
							ETNIE				
				·			SAND				
-5 24/18	20-22	6-6	ND		fine SAND, some			1			
		7-8		(+) om (stratmen)							entonite seal
											21.0'-23.
	I										
-6 24/22	25-27	6-7	ND	Medium dense, brown,	fine SAND,						
		8-9		(·) om (manno	-,					<u> </u>	Filter sand 23.0'-35.
											20.0 - 20.1
											PVC creen
				<u> </u>							25.0'-35.
	3 24/12 4 24/18 5 24/18	3 24/12 10-12 4 24/18 15-17 5 24/18 20-22	34-65 34-65 34-65 34-65 34-65 34-65 34-65 34-65 34-65 34-65 22-14 34 22-14 34 22-14 34 22-14 34 22-14 34 22-14 35 36 24/18 20-22 6-6 7-8 36 24/22 25-27 6-7	34-65 34-65 3 24/12 10-12 5-15 ND 22-14 4 24/18 15-17 5-7 ND 8-9 5 24/18 20-22 6-6 ND 7-8	34-65 Some fine to coarse Gr (+) Silt 3 24/12 10-12 5-15 ND Dense, brown, fine to coarse Gr (+) Silt 4 24/18 15-17 5-7 ND Medium dense, brown, (+) Silt (stratified) 5 24/18 20-22 6-6 ND Medium dense, brown, (+) Silt (stratified) 7-8 Medium dense, brown, (+) Silt (stratified) Medium dense, brown, (+) Silt (stratified)	34-65 Some fine to coarse Gravel, trace	34-65 Some fine to coarse Gravel, trace	34-65 Some fine to coarse Gravel, trace COARSE SAND	34-65 Sance Sanc	34-65 (+) Silt Some fine to coarse Gravel, trace COARSE SAND AND GRAVEL	2 24/18 5-7 7-13 ND Dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace (+) Silt 3 24/12 10-12 5-15 ND Dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace (+) Silt 4 24/18 15-17 5-7 ND Medium dense, brown, fine SAND, some (+) Silt (stratified) Medium dense, brown, fine SAND, some (+) Silt (stratified) FINE SAND Medium dense, brown, fine SAND, some (+) Silt (stratified) B 3 24/12 25-27 6-7 ND Medium dense, brown, fine SAND, some (+) Silt (stratified)

	GΖ	A G	EOE	NVIR	ONMEN	TAL, IN	IC. ntal Scientist					***************************************			Boring No.	GZ-6
- 1			g Engi Road	ineers/O	eologists/i	Suvironme	ntai Scientist	S		MACE	DERMID,	INC		1	Page	2 of 2
	Vern	on, (Connec	cticut 060	66					WATERBUR	Y, CONN	ÉCTICUT		1	File No.	41462
1'	(203)	.دره ر	- 1003]. (Chkd. By:	TFC
Г	τin	g Co	. GZA	GEOE	VIRONN	IENTAL,	INC.		Casing	<u>Sampler</u>		Groui	ndwate	er R	eadings	
\	er	nan	-	Al Augus	ine		Тур	e	HSA	S.S.	Date	Time	De	pth	Casing	Stab. Time
	ζZĄ						I.D.	/O.D.	4-1/4"	2* O.D.						
l R	ieor lep.	inviro	onmen J	tai im White	:		Han	nmer Wt.		140 LB.						
	ate	Start	1/13/	95	End	1/13/95	Han	nmer Fall		30"						
L	ocat	ion					Oth	er								
c	S.E	lev.			Datun	n	<u> </u>									
Ţ	5	C B S L		Sai	nple Infor	mation			S	ample		Stratum	ı	R	Equipmen	nt Installed
I I	Г	N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data		Description d	& Classification		Description	·]	M K S		
Γ			S-7	24/18	30-32	5-6	ND	Medium	dense, brown,	fine SAND, some						
						6-8		(-) 1/2"	C115 C					2.	\mathbb{H}	Filter sand 23.0'-35.0'
												FINE			\mathbf{H}	23.0°-35.0° • 2* PVC
]]		•		SAND	1			25.0'-35.0'
	5]			1			3.		ں.رو۔ ں.رہے
			S-8	24/18	35-37	4-3	ND	Loose, bi	rown, fine SAN	ND, some (-)						
ļ	L					3-5] 3111	•			37.0'		ļ		
											[.	END O	F			
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بر ا و		2. 3	Sample	S-7 was	wet. with curb	box.										
m	۱ ۱	٥.	** •11 •	ompiered	with care	DOX.									·	
r	- 1															
k																<u> </u>
	rat	ific	ation	lines	represen	t approx	imate bound	daries be	tween soil	types, transitions of grow	ons may	be gradua	l. W	ate	r level	
fa	cto	rs t	han t	hose pr	esent at	the time	under condi e measureme	ents were	made.	cuacions of gro	- MAGECE	and y occu	. 446	_	Boring No	. GZ-6
- 1														- 1	por my no	. 32~

eman ZA eoEnvir		GEOEN Al August	VIRONM	ENIAL,	NC.	<u>Casing</u>	Casing Sampler			naumter I	Chkd. By: er Readings		
ZA eoEnvir ep.		Al August	ine		-	****			T		$\overline{}$		Sec. 200
eoEnvir ep.					Тур	-	S.S.	Date	Time 5 0735	Depth		asing	Stab. T
•	onmen	tal im White		•		./O.D. 4-1/4" mmer Wt.	2" O.D.	1/13/9	3 0733	30.0'	+	30.0'	5 minus
	t 1/13/			/13 /05			140 LB.	<u> </u>		<u> </u>	+-		
cation	1/13/	7.7	End 1	/13/95	Oth	nmer Fall	30"	-			┼		<u> </u>
S.Elev.			Datum			CI .		L		L			<u> </u>
		San	nple Inforn			1 .	Sample		Stratum	n R	For	uinmen	t Instalie
CB SL NW GS	Ι.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	1	& Classification	·	Description	I M		<u> </u>	rb box
	S-1	24/18	0.5-2.5	32-11	ND	Medium dense, black-	brown CINDERS/		ASPHA	LT 1.		T) - :	
				3-5		ASH (FILL)	·		0.5'				
						1			FILL			B	Natural Backfill 0'-21'
5									5.0'				
	S-2	24/6	5-7	7-51	ND	Very dense, brown, fin SAND and fine to coa	e to coarse rse GRAVEL.					S. al	
				54-80	· 	trace Silt		İ			-		2" PVC
									FINE TO	E			0'-25'
									SAND AND				
₀├─┤									FINE TO	E			
	S-3	24/15	10-12	19-42	ND	Very dense, brown, fin SAND and fine to coar	e to coarse rse GRAVEL,		GRAVE	L			
				50-50		trace Silt		Ì					
								-	13.0'			20	
-						1	•						
5	S-4	24/18	15-17	6-6	ND	Medium dense, brown,	fine SAND						
+	J-	27/10	13-11	8-9	110	some Silt (stratified)	ino orato,						
				G-7									
								1	•				
0	S-5	24/18	20-22	5-8	ND	Medium dense, brown,	fine SAND,						
		,		8-8		some Silt (stratified)	•	1					Bentonit
												Sc	al 21'-23'
								1	FINE SAND	}			
						1							
5	S-6	24/18	25-27	9-8	ND	Medium dense, brown,	fine SAND,				F][_	Filter saı
				8-10		some Silt (stratified)					E		23'-35'
											E	<u> </u>	
											E		2" PVC
													25'-35'

GZA GEOENVIRONMENTAL, INC. Boring No. GZ-3 Consulting Engineers/Geologists/Environmental Scientists of 2 Page MACDERMID, INC. WATERBURY, CONNECTICUT 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41462 Chkd. By: **TFC** oring Co. GZA GEOENVIRONMENTAL, INC. Groundwater Readings Casing Sampler Al Augustine Турс HSA S.S. Date Time Depth Casing Stab. Time reman 4-1/4" 2" O.D. 1/13/95 0735 30.01 30.0 5 minutes GZA I.D./O.D. GeoEnvironmental Jim White Rep. Hammer Wt. 140 LB. ate Start 1/13/95 End 1/13/95 30" Hammer Fall Location Other GS.Elev. Datum C B Sample Information Sample Equipment Installed Stratum й w GS Depth (Ft.) Τ̈́Η Blows/ Pen./ Field Description & Classification Description No. Test Data Reć. Medium dense, dark brown, fine SAND, little (+) Silt, 1/2" lens 24/22 30-32 6-8 ND Filter sand 23'-35' 10-11 FINE SAND 2" PVC screen 25'-35' 35 Loose, brown, fine SAND, little (+) Silt S-8 24/18 35-37 4-6 ND 3-5 37.0' END OF EXPLORATION 40 55 m a r k ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No. GZ-3

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists GZ-5 Boring No. 2 Page of MACDERMID, INC. WATERBURY, CONNECTICUT 27 Nack Road Vernon, Connecticut 06066 (203) 875-7655 41462 File No. Chkd. By: TFC Paring Co. GZA GEOENVIRONMENTAL, INC. Casing Sampler Groundwater Readings øreman Al Augustine Type **HSA** S.S. Date Time Depth Casing Stab. Time I.D./O.D. 4-1/4" 2" O.D. GZA 2/15/95 1005 33.2 35.0 20 minutes GeoEnvironmental
Rep. Alex Alex Roseweir 140 LB. Hammer Wt. ate Start 1/13/95 End 2/15/95 Hammer Fall 30" Other Location GS.Elev. Datum CB SL Sample Information Sample Equipment Installed Stratum R M K S Blows/6" Field Description & Classification Pen./ Depth (Ft.) curb box flushmount Description Ĥ GS No. Rec. Test Data Top 6": Medium dense, brown, fine to coarse SAND and GRAVEL, trace S-1 24/12 0-2 9-6 ND 1. 5-4 Bottom 6": Medium dense, brown, fine to medium SAND, trace Silt Backfill 0.5'-26.0' 5-7 S-2 24/18 11-28 ND Very dense, grey-brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt 45-66 2" PVC SAND riser AND GRAVEL 10 2. Very dense, grey-brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt S-3 24/14 10-12 12-21 ND 30-49 24/2 15-17 9-6 ND Dense, olive green-brown, fine to coarse SAND and GRAVEL, trace Silt (sample wet) S-4 39-50 20.0 20 S-5 24/16 20-22 15-16 ND Medium dense, orange-brown, fine SAND and SILT, trace fine to 12-13 coarse Gravel (sample dry) AND SILT 24/0 25-27 S-6 57-39 No recovery 29-28 Bentonite seal 26.0'-28.0' Filter sand - 28.0'-40.0' Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected.
Results are in parts per million relative to a benzene standard.
 Auger refusal encountered at 10' on 1/13/95. Boring moved approximately 20' east on 2/15/95 and completed. e m a ratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. Boring No. GZ-5

27 l Ver	Naek non.	Road	ineers/Go		Environme	C. ntal Scientist	S	MAC WATERBU	DERMID IRY, CON	, INC. NECTICUT			Boring No. Page File No. Chkd. By:	GZ-5 2 of 2 41462 TF0
- ;	ng Co	o. GZA	GEOEN	VIRONM	IENTAL,	NC.	Casing	Sampler		Groun	dwate		eadings	
	man		Al August			Тур		S.S.	Date	Time	De	pth	Casing	Stab. Time
iZ/				4,.,			/O.D. 4-1/4"	2" O.D.	2/15/9	5 1005	33.		35.0'	20 minutes
eo ap		onmen A	tai Alex Rose	weir			nmer Wt.	140 LB.		1			1	
.6	Star	t 1/13/	95	End	2/15/95	—— Han	nmer Fall	30"					1	
oca	tion		•			Oth	er ———		1					İ
S.I	Elev.			Datun	n									
)	C B S L		Sar	nple Infor	mation		S	Sample		Stratum		R	Equipmen	nt Installed
I	S L N W G S	1	Pen./ Rec.	Depth (Ft.)	Biows/	Field Test Data	Description	& Classification		Description		M K S		
		S-7	24/18	30-32	9-8	1.3	Medium dense, brown SAND	SILT and fine	,					
j		ļ			10-11		J			SAND	- }			
- [1					AND SILT				Filter sand 28.0'-40.0
							·		J					
5					ļ				1	35.0'				
		S-8	24/20	35-37	6-5	1.5	Medium dense, brown	SILT			ł			2" PVC
					8-12									screen 30.0'-40.0
					 					SILT				
													ĦI	
٥			21/21									2.		
ŀ		S-9	24/24	40-42	23-13	1.3	Medium dense, brown wet)	SILT (sample	İ					
1					17-17				}	42.0'		İ		
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d	ific	ation have	lines i been mad	represen de at til esent at	t approxi mes and u the time	mate bound inder condi	daries between soil tions stated. Fluc ents were made.	types, transit tuations of gr	ions may oundwater	be gradual may occur	due	ate to	r level other	

GZA GEOENVIRONMENTAL, INC. Consulting Engineers/Geologists/Environmental Scientists GZ-1 Boring No. Page of 1 MACDERMID, INC. WATERBURY, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 41462 File No. Chkd. By: TFC ring Co. GZA GEOENVIRONMENTAL, INC. Casing Groundwater Readings Sampler S.S. Stab. Time reman∕ Al Augustine Type **HSA** Date Time Depth Casing I.D./O.D. 4-1/4" 2" O.D. GeoEnvironmental Rep. Jim Jim White 140 LB. Hammer Wt. ate Start 1/12/95 End 1/12/95 Hammer Fall 30" Other Location GS.Elev. Datum Sample Sample Information Stratum Equipment Installed S L N W G S Blows, Field Ť Pen./ Rec. Depth (Ft.) Description & Classification Description Test Data No. Dense, light brown, fine to medium SAND, trace fine Gravel, trace Silt S-1 24/12 0-2 1-26 ND 1 18-13 NO EQUIPMENT INSTALLED 5-7 ND S-2 24/18 5-6 Medium dense, light brown, fine SAND, trace Silt 1/8" lens 9-12 FINE TO COARSE SAND 10 Top 6": Medium dense, light brown, fine SAND, trace Silt Bottom 6": Medium dense, light brown, fine SAND, trace Silt 24/12 ND S-3 10-12 4-10 14-16 24/10 15-17 S-4 ND Medium dense, light brown, fine to coarse SAND, trace Silt 6-7 19.0' 20 Medium dense, light brown-grey, fine to medium SAND and fine GRAVEL, trace Silt S-5 24/8 20-22 43-19 ND FINE TO MEDIUM 9-10 SAND AND FINE GRAVEL 4 25.0' 25 END OF EXPLORATION 100/0" S-6 0/0 25 Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected.
Results in parts per million (ppm) relative to a benzene standard.
 Gravel encountered by augers at approximately 12.0' depth.
 Spoon and auger refusal at 25.0' depth.
 No groundwater encountered. m a r k ratification lines represent approximate boundaries between soil types, transitions may be gradual. readings have been made at times and under conditions stated. Fluctuations of groundwater may occur d factors than those present at the time measurements were made. Water level Fluctuations of groundwater may occur due to other Boring No. GZ-1

GZA GEOENVIRONMENTAL, INC. GZ-11 Boring No. Consulting Engineers/Geologists/Environmental Scientists Page 1 MACDERMID, INC. WATERBURY, CONNECTICUT 27 Naek Road Vernon, Connecticut 06066 (203) 875-7655 File No. 41462 TFC Chkd. By: ing Co. GZA GEOENVIRONMENTAL, INC. Groundwater Readings Casing Sampler Stab. Time eman **HSA** Date Time Depth Al Augustine Type S.S. Casing I.D./O.D. 4-1/4" 2" O.D. NO MEASURABLE WATER GeoEnvironmental Rep. Ale: Alex Roseweir Hammer Wt. 140 LB. End 2/16/95 30" ite Start 2/16/95 Hammer Fall Other Location GS.Elev. Datum Sample Information Sample Stratum Equipment Installed PTH N W Pen./ Rec. Blows/ Field Test Data Depth (Ft.) Description & Classification Description No ASPHALT S-1 24/13 0-2 5-13 0.3 Dense, brown, fine to coarse SAND and GRAVEL, trace Silt 1. 20-31 NO EQUIPMENT INSTALLED 5-7 S-2 24/9 0.3 Dense, brown, fine to coarse SAND and GRAVEL, trace Silt 15-23 19-13 SAND AND GRAVEL 10 S-3 24/16 10-12 53-13 0.3 Medium dense, brown, fine to coarse SAND, little fine to coarse Gravel, 9-5 trace Silt Very dense, light brown, fine to coarse SAND and GRAVEL, some fractured Rock, trace Silt **S-4** 24/18 15-17 95-61 ND 69-98 18.0' 20 Medium dense, light brown, fine SAND, little Silt, trace coarse Gravel S-5 24/19 20-22 9-11 ND 14-14 22.0' END OF EXPLORATION 25 Samples screened in field using a T.E.I. 580B Photoionization Detector. ND indicates None Detected. Results are in parts per million (ppm) relative to a benzene standard. m а fatification lines represent approximate boundaries between soil types, transitions may be gradual. Water leve eadings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other Water level readings have been made at times and under conditions stated. factors than those present at the time measurements were made. Boring No. GZ-11

27 Ve	Naek	Road Connec	NVIR (neers/Ge		ITAL, IN Environme	IC. ntal Scientist	s	MACI WATERBUI	DERMID, II RY, CONNE	NC. ECTICUT	. 11		Boring No. Page 1 File No.	41462
<u></u>		674	CEOE	RUDONA	(E) E A I							—	Chkd. By:	TFC
					MENTAL,		<u>Casing</u> e HSA	<u>Sampler</u> S.S.	Date	Time		pth	Casina	Stab. Time
GZ	eman ^		Al August	ine		Тур	/O.D. 4-1/4"	2" O.D.	Date	-	L	<u> </u>	Casing LE WATER	
Geo	Envir	onmen	tal Jex Rose				nmer Wt.	140 LB.		NO MEA.	SURE I	ADI	TE WATER	
l Rep		2/16/			2/16/95		nmer Fall	30"		 				_
	ation	2/10/			2/10/93	Oth							<u> </u>	
-	Elev.			Datun	<u> </u>		C1		L		L		.L	L
D	СВ	Γ	Sar	nple Infor			T	ample		Stratun	1	R	Equipment	Installed
P T H	S L N W G S	No.	Pen./ Rec.	Depth (Ft.)	Blows/	Field Test Data	1	& Classification	I	Description		M K S	equipment.	
<u></u>		S-1	24/11	0-2	5-2	ND	Loose, brown, fine to c and GRAVEL, trace Si	oarse SAND				1.		
					5-13		and GRAVEL, trace Si	lt	. 1					
													NO EQ	UIPMENT
							1		ļ	Est y tan en-	,		INST	ALLED
_										FINE TO	E			
5		S-2	24/5	5-7	3-2	NĎ	Loose, brown, fine to collittle fine Gravel, trace	parse SAND,		SAND				•
					3-7		intile line Gravei, trace	Siit						
10									<u> </u>	10.0'		2.		
		S-3		10	<u> </u>		No sample obtained; re	fusal	F	END O	F TION			
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	 1.	Sample	s screen	d in field	using a T.I	E.I. 580B Pho	toionization Detector. N	ID indicates None	Detected.					
e m	2.	Resu Five at	its are in tempts w	parts per ere made	million (pr	m) relative t	o a benzene standard. GZ-10 to advance past 1 m 2' to 10'.	0 feet below grade						
a r		Refu	sal was e	ncountere	d each time	, ranging fro	m 2' to 10'.	<i>b</i>						
k s														
لـ raس	tific	ation	lines	represen	t approx	imate bound	daries between soil	types, transiti	ons may b	e gradua	l., 1	late	r level	
ead fact	ings ors t	have han t	been ma hose pr	de at ti esent at	mes and u	under cond measureme	daries between soil itions stated. Fluc ents were made.	tuations of gro	oundwater (may occu	r due			
	-	-	Ε,									- 1	Boring No.	GZ-10

27 Ve	Naek mon,		NVIR (incers/G		TAL, IN	IC. ntal Scientist	s	MAC WATERBU	DERMID, RY, CONN	INC. ECTICUT			Boring No. Page 1 File No.	4146
	ina C	. G7A	GEOE	NT/IDONIM	ENTRAL	INC	Cosina	Samples		Geour	dumi		Chkd. By:	TF
	•			VVIRONM	ENTAL,		Casing	<u>Sampler</u> S.S.	Date	Time			Cosing	Stab. Tim
GZ.	eman ^		Al Augus	une		— Тур		2" O.D.	Date	Time	De	pth	Casing	Stab. 11m
Geo	Envi	ronmen	tal im White	_			/O.D. 4-1/4" nmer Wt.							<u> </u>
Rep		t 1/13/			1 /13 /05		nmer wt. nmer Fall	140 LB.			-		- 	
	e Stat ation	1 1/13/		— End	1/13/95	Oth							 	
	Elev.	_		Datum					L	1	· · · ·	-	<u>.l.,.</u>	L
_	СВ	ì	Sa	mple Inform			S	ample		Stratum		R	Equipment	Installed
D P T	S L N W	} -	Pen./	Depth	Blows/	Field	1	& Classification	j	Description		M K	Equipmen	
Ĥ	ĠŚ	No.	Rec.	(Ft.)	6"	Test Data	Description	e Classification		Description		ŝ		
		S-1		0.5-2.5	<u> </u>	ND	Brown, fine to medium	SAND, trace	F	CONCRE	TE	1. 2.		
							(+) 3.11					-	NO EO	TIPMENT
										3.0'			INST	UIPMENI ALLED
									·	CONCRE 3.5'	TE			
5									1	<u> </u>				
٥		S-2		5-6		ND	Brown, fine to coarse S.	AND, little	1	6.0'		3. 4.		
							Jone			END OI EXPLORA	F TION	1 1		
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1		Resu Due to	Its in par	rts per milli	on (ppm)	relative to a	otoionization Detector. No benzene standard. ed by the split spoon; san			er				
	3. 4.	Cuttin Auger Hole w	refusal a ras backf	t 6.0' depth illed and se	; abandon aled at the	ed hole. surface with	n concrete.							
ra	tific	cation have	lines been ma	represent	approxi	imate bound	daries between soil itions stated. Fluc	types, transit	ions may	be gradua	l. N	date e to	r level other	
ict	ors	than t	hose pr	esent at	the time	measurem	ents were made.			,			Boring No.	GZ

APPENDIX D DESCRIPTION OF CT-RSR STANDARDS

e\rdm\mac\mac-0036-ca-aocs

Associates, Inc.

• Direct Exposure Criteria (DEC)

The DEC is typically based on exposure assumptions relative to incidental ingestion of pollutants in soils and dermal contact with soils. The DEC applies to accessible soil to a depth of 15 feet. The DEC for substances other than PCBs do not apply to inaccessible soil (defined below) at a release area provided that an appropriate environmental land-use restriction (ELUR) is in effect with respect to the subject parcel to ensure that such soils remain inaccessible. Inaccessible soil generally means polluted soil which is: (1) more than 4 feet below the ground surface; (2) more than 2 feet below a paved surface comprised of a minimum of 3 inches of bituminous concrete or concrete; (3) beneath an existing building; or (4) beneath another permanent structure(s) approved by the Commissioner. Inaccessible soil contaminated at concentrations exceeding the applicable DEC and left in-place with an ELUR cannot be exposed by excavation, demolition, or construction activities without written approval from the Commissioner.

CTDEP has established two sets of DEC using different exposure assumptions. The first set is appropriate for residential land use (RDEC). The second set is appropriate for industrial/commercial land use (I/C DEC). In general, in the absence of any ELUR provisions, all sites are required to be cleaned up to the residential criteria in order to be in compliance with the RSRs. However, an industrial/commercial site may be cleaned up to meet the typically less stringent I/C DEC (in lieu of the RDEC), if an ELUR is in effect with respect to such parcel to ensure that it will be used for "non-residential" activities only.

• Pollutant Mobility Criteria (PMC)

The Pollutant Mobility Criteria (PMC) that applies to remediation of a parcel depends primarily on the ground water classification of the site. The purpose of the PMC is to prevent any contamination to ground water in GA classified areas, and to prevent unacceptable further degradation of ground water in GB areas. Pollutant Mobility Criteria in a GA ground water area (GA PMC) are more stringent than the criteria utilized in a GB ground water area (GB PMC). The GA PMC generally applies to all soil in the unsaturated zone, from the ground surface to the seasonal <u>low</u> water table. However, the GB PMC is typically applicable to soils from the ground surface to the seasonal <u>high</u> water table only. The PMC or an appropriate alternative criteria may also be applied to soils below the water table if such soils constitute an ongoing source of ground water pollution and if remediation of such soils is technically practicable.

The PMC typically do not apply to environmentally isolated soils, which are defined in the RSR as contaminated soils located beneath an existing building (or other permanent structure, as approved by the Commissioner), which are not a source of on-going pollution. The PMC do not apply to environmentally isolated contaminated soils (that are polluted with substances other than Volatile Organic Compounds [VOCs]), provided that an ELUR is recorded for the site that ensures that such soil will not be exposed as a result of demolition of the building or other activities. Note that it is typically acceptable for a new building to be constructed to <u>render</u> soil environmentally isolated (and inaccessible).

HRP

In general, the RSRs require that a substance in soil (other than an inorganic substance or PCB) shall be remediated to at least that concentration at which the results of a mass analysis test does not exceed the applicable PMC. An inorganic substance or PCB in soil shall be remediated to at least that concentration at which the results of a Toxicity Characteristic Leaching Procedure (TCLP) or Synthetic Precipitation Leaching Procedure (SPLP) test does not exceed the applicable PMC.

• Ground Water Protection Criteria (GWPC)

The GWPC typically apply to all ground water in a GA classification area. The GWPC ensure that ground water contamination resulting from on-site sources which exceeds background is remediated to levels that adequately protect its designated use as an existing or potential supply of water suitable for drinking without treatment. At this time it is presumed that the GWPC do not apply to the subject site, since the parcel and surrounding areas are classified GB, and as no nearby water supply wells have been reported.

• Surface Water Protection Criteria (SWPC)

The SWPC apply to all ground water that discharges to surface water. The SWPC, which are compared to ground water contaminant concentrations, ensure that ground water contamination resulting from on-site sources that exceeds background is remediated to levels that adequately protect nearby surface water quality. SWPC are based on Connecticut's water quality standards that are established to be protective of both human health and the environment. In general, compliance with the SWPC is achieved when appropriate monitoring demonstrates that the average concentration of a compound in a ground water plume emanating from a site is less than the SWPC. Compliance may also be established by demonstrating through appropriate monitoring that the ground water contaminant concentration at the point of discharge to the surface water body is less than the SWPC. Alternative SWPC may also be developed based upon site-specific circumstances.

• Volatilization Criteria (VC)

The Volatilization Criteria (VC) applies to all ground water polluted with a volatile organic substance within 15 feet of the ground surface or the lowest level of a building. According to the RSRs, VOCs shall be remediated to a concentration that is equal to or less than the applicable Residential VC (RVC) for ground water. If ground water polluted with a VOC is below a building used solely for industrial or commercial activity, ground water may be remediated to the applicable industrial/commercial VC (I/C VC), in lieu of the RVC, provided that an appropriate ELUR is in effect. The ELUR must ensure that the parcel (or portion thereof) will not be used for any residential purpose in the future and that any future use is limited to industrial or commercial activity. There are a number of exceptions to the VC standards under the RSRs, including compliance options based upon soil gas monitoring, vapor controls, and indoor air monitoring.

APPENDIX E 1995 GROUNDWATER LABORATORY REPORTS

e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

Date: March 16, 2001

Rev. No. 0

1995 GROUNDWATER DA	TA SUMMARY FOR VOCS, CYANIDE AND F	LUORIDE
Monitoring Well	Former Monitoring Well Designation	Page
MW-103	GZ-2	1
MW-112	GZ-3	4
MW-113	GZ-5	7
MW-111	GZ-6	10
MVV-105	GZ-7	13
MW-109	GZ-8	16
MVV-108	GZ-9	19
MW-107	MAC-1	22
MW-106	MAC-3	25
MW-102	MAC-4	28
MW-101	MAC-5	31
MW-104	MAC-7	34
MW-113	GZ-5	37
1995 GROUN	DWATER DATA SUMMARY FOR METALS	
MW-110	MAC-1	40
MW-107	MAC-3	40
MW-106	MAC-4	40
MW-102	MAC-5	40
MW-101	MAC-6	41
MW-104	MAC-7	41
MW-103	GZ-2	41
MW-112	GZ-3	41
MW-113	GZ-5	42
MW-111	GZ-6 ·	42
MW-105	GZ-7	42
MW-109	GZ-8	42
. MVV-108	GZ-9	43

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462

GZ-2

PROJECT MGR.: DATE SAMPLED: T. CARR

MATRIX:

AQUEOUS

DATE TESTED:

3/1/95

LABORATORY #:

Q0009

DILUTION FACTOR:

3/6/95 1

TARGET COMPOUND LIST		QUANT.		TARGET COMPOUND LIST	170380 550	QUANT.
8260 COMPOUNDS	CONC.	LIMIT		8260 COMPOUNDS:	CONC.	LIMIT
	1		-	0200 COMIL CONDS.	00.10.	i chive
DICHLORODIFLUOROMETHANE	ND	2	TE	ETRACHLOROETHENE	ND	1
CHLOROMETHANE	, ND	2	F335	IBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,	2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CI	HLOROBENZENE	ND	1
CHLOROETHANE	ND	2	1,	1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	E	THYL BENZENE	ND	1
ACETONE	ND	25	m	&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1	0-	XYLENE	ND	1 1
METHYLENE CHLORIDE	ND	1	เรา	TYRENE	ND	1
CARBON DISULFIDE	ND	2	BF	ROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	BMQL	1	IS	OPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,	1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1	1,	2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BF	ROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-	PROPYLBENZENE	ND.	1
2,2-DICHLOROPROPANE	ND	1	2-	CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	ND	1	1,3	3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1	4-	CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	ter	rt-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2	2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	se	c-BUTYLBENZEŅE	ND	1
CARBON TETRACHLORIDE	ND	1	p-	ISOPROPYLTOLUENE	ND	. 1
1,2-DICHLOROETHANE	ND	1	1,3	3-DICHLOROBENZENE	ND	1
BENZENE	ND	1	1,4	4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	ND	1	n-	BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2	2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	DИ	1	1,2	2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2	2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	1	HE	EXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NA	APHTHALENE	ND	1
TOLUENE	ND	1	1,2	2,3-TRICHLOROBENZENE	ND .	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2	2-DICHLOROETHANE - D4	100	76-114
2-HEXANONE (MBK)	ND	2	тс	DLUENE - D8	106	88-110
1,3-DICHLOROPROPANE	ND	1	4-	BROMOFLUOROBENZENE	93.9	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY: Halel



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-007

Client ID: Matrix:

GZ-2

Water

Date Sampled:

03/01/95 09:00

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Analytical Parameter

Result

Unit

Detection Limit

Method

Date

No.

Analyzed

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

jc

'Analyst

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

mm

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-007

Client ID: Matrix:

Fluoride

GZ-2 Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

0.04

03/09/95

413B

Detection Method Date
Analytical Parameter Result Unit Limit No. Analyst Analyzed

MISCELLANEOUS TESTING

mg/l

ND

03/06/95

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-3

PROJECT MGR.: DATE SAMPLED: T. CARR 3/1/95

MATRIX:

AQUEOUS

DATE TESTED:

3/6/95

LABORATORY #:

Q0010

DILUTION FACTOR:

1

			DILUTION FACTOR:		
TARGET COMPOUND LIST		QUANT.	TARGET COMPOUND LIST		QUANT
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	12	1
CHLOROMETHANE	ND	2	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1
ACETONE	ND	25	m&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	.1	o-XYLENE	ND	1
METHYLENE CHLORIDE	ND	1	STYRENE	ND	1
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	2.8	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND .	1
1,2-DICHLOROETHANE	ND	1	1,3-DICHLOROBENZENE	ND	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	1.8	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	ND] 1
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MiBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ND	1
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	106	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	108	88-110
1,3-DICHLOROPROPANE	ND	1	4-BROMOFLUOROBENZENE	93.8	86-115

COMMENTS:

ANALYZED BY:

Marchefil

REVIEWED BY: Hualil



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Tim Carr/Tom Lotto Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-008

Client ID: Matrix:

GZ-3

Water

Date Sampled:

03/01/95 12:15

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Detection Method Date No. Analyzed Analytical Parameter Result Unit Limit Analyst

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-008

Client ID: Matrix: GZ-3 Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

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Analytical Parameter		Result Unit	Limit No	
 In Copyright Committee and Copyright Copyri				production deficie. De frique production de contraction de la contraction de la contraction de la contraction

MISCELLANEOUS TESTING

Fluoride

ND

mg/l

0.04

413B

mm

03/06/95

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-5 PROJECT MGR.: DATE SAMPLED: T. CARR 3/1/95

MATRIX:

AQUEOUS

DATE TESTED: DILUTION FACTOR: 3/7/95

ABORAT	ORY#:	Q0020
TADO	ET COMP	OUND LICT

TARGET COMPOUND LIST		QUANT.		TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC.	LIMIT		8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2		TETRACHLOROETHENE	ND	1
CHLOROMETHANE	ND	2		DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2		1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2		CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2		1,1,1,2-TETRACHLOROETHANE	ND	1 1
TRICHLOROFLUOROMETHANE	ND	4		ETHYL BENZENE	ND	1
ACETONE	ND	25		m&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1		o-XYLENE	ND	1
METHYLENE CHLORIDE	ND	1		STYRENE	ND	1
CARBON DISULFIDE	ND	2		BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1		ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1		1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1		1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5		BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25		n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1		2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	ND	1		1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1		4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1		tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1		1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1		sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	. 1	*	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	ND	1	*	1,3-DICHLOROBENZENE	ND	1
BENZENE	ND.	1	*	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	ND	1		n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1		1,2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	ND	1		1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1		1,2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	1		HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1		NAPHTHALENE	ND	1
TOLUENE	ND	1		1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1		1,2-DICHLOROETHANE - D4	97.1	76-114
2-HEXANONE (MBK)	ND	2		TOLUENE - D8	105	88-110
1,3-DICHLOROPROPANE	ND	1		4-BROMOFLUOROBENZENE	91.2	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY: Heale

7



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager: Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-009

Client ID: Matrix:

GZ-5

Water

Date Sampled:

03/01/95 11:10

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Analytical Parameter

Detection

Method

Date Analyzed

Result

Unit

Limit

No.

Analyst

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager: Sampler Name:

GZA

Sample Information

Lab ID:

50620808-009

Client ID:

GZ-5

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

MISCELLANEOUS TESTING Fluoride	ND	mg/l	0.04	413B	mm	03/06/95
					and the same and the same	
Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-6

PROJECT MGR.: DATE SAMPLED: T. CARR

MATRIX:

AQUEOUS

DATE TESTED:

3/1/95 3/6/95

LABORATORY #:

Q0011

DILUTION FACTOR:

1

TARGET COMPOUND LIST		QUANT	TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACULOROFTUENE	6.0	_
	1	2	TETRACHLOROETHENE	1	1 1
CHLOROMETHANE	ND	_	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE BROMOMETHANE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
CHLOROETHANE	ND	2	CHLOROBENZENE	ND	1
TRICHLOROFLUOROMETHANE	ND ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
ACETONE	ND	4	ETHYL BENZENE	ND	1
1,1-DICHLOROETHENE	ND	25	m&p-XYLENES	ND ND	1
METHYLENE CHLORIDE	ND	1	o-XYLENE STYRENE	1	1 1
		1	×	ND	1
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	74	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1 (
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND.	1
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	BMQL	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	4.2	1	1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	4.0	1	1,3-DICHLOROBENZENE	ND	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	BMQL	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	ND	. 1
4-METHYL-2-PENTANONE (MIBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ND	1
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	DИ	1	1,2-DICHLOROETHANE - D4	105	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	106	88-110
1,3-DICHLOROPROPANE	ND	1	4-BROMOFLUOROBENZENE	93.9	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY: Hwall



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-010

Client ID: Matrix:

GZ-6 Water

Date Sampled:

03/01/95 10:40

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Date Detection Method Analytical Parameter Result Limit No. Analyzed Unit Analyst

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-010

Client ID:

GZ-6

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

Method Date Detection Analytical Parameter Result Unit Limit No. Analyst Analyzed

MISCELLANEOUS TESTING

Fluoride

0.04

mg/l

0.04

413B

mm

03/06/95

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.:

41462 GZ-7

PROJECT MGR.: DATE SAMPLED: T. CARR

SAMPLE ID: MATRIX:

AQUEOUS

DATE TESTED:

3/1/95

LABORATORY #:

Q0012

DILUTION FACTOR:

3/6/95 1

TARGET COMPOUND LIST 8260 COMPOUNDS	CONC.	QUANT.		TARGET COMPOUND LIST 8260 COMPOUNDS:	CONC.	QUANT.
DZSC OCWII CONDS		- Cuán s		6200 COMP OUNDS.	CONO.	CHAILI
DICHLORODIFLUOROMETHANE	ND	2		TETRACHLOROETHENE	17	1
CHLOROMETHANE	ND	.2		DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2		1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2		CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2		1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	11	4		ETHYL BENZENE	ND	. 1
ACETONE	ND	25		m&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1		o-XYLENE	ND	1
METHYLENE CHLORIDE	ND	1		STYRENE	ND	1
CARBON DISULFIDE	ND	2		BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1		ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1		1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1		1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5		BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25		n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1		2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	ND	1		1,3,5-TRIMETHYLBENZENE	ND	. 1
CHLOROFORM	BMQL	1		4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1		tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	BMQL	1		1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1		sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	*	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	ND	1		1,3-DICHLOROBENZENE	ND .	1
BENZENE	ND	1	*	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	ND	1	*	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	8	1,2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	ND	1	*	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	▓	1,2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	1		HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	888	NAPHTHALENE	ND	1
TOLUENE	ND	1		1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1		1,2-DICHLOROETHANE - D4	100	76-114
2-HEXANONE (MBK)	ND	2		TOLUENE - D8	104	88-110
1,3-DICHLOROPROPANE	ND	1		4-BROMOFLUOROBENZENE	92.4	86-115

13

COMMENTS:

ANALYZED BY:

REVIEWED BY: Hualil



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-011

Client ID: Matrix:

GZ-7

Water

Date Sampled:

03/01/95 10:00

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Detection Method Date Unit Analyzed Analytical Parameter Result Limit No. Analyst

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager: Sampler Name:

GZA

Sample Information

Lab ID:

50620808-011

Client ID: Matrix: GZ-7

Comment:

Water

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

		Detection	Method		Date
Analytical Parameter	Result	Unit Limit	No.	Analyst	Analyzed
MISCELLANEOUS TESTING Fluoride	0.27	mg/l 0.04	413B	mm	03/06/95

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-8 **AQUEOUS** PROJECT MGR.: DATE SAMPLED: DATE TESTED:

T. CARR 3/1/95 3/6/95

MATRIX: LABORATORY #:

Q0018

DILUTION FACTOR:

1

TAROUT COMPOUND LICE	8 4 88	OULANT	1881	TAROFT COMPONED HET		QUANT.
TARGET COMPOUND LIST	20110	QUANT.		TARGET COMPOUND LIST	00110	Grafas e infrésess
8260 COMPOUNDS	CONC.	LIMIT	-	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	T	TETRACHLOROETHENE	3.9	1
CHLOROMETHANE	6.5	2		DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1	,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2		CHLOROBENZENE	3.0	1
CHLOROETHANE	ND	2	1	,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	E	THYL BENZENE	ND	1
ACETONE	180	25	n	n&p-XYLENES	BMQL	.1
1,1-DICHLOROETHENE	ND	1	0	-XYLENE	-ND	1
METHYLENE CHLORIDE	8.4	1	S	STYRENE	ND	1
CARBON DISULFIDE	2.2	2	8	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	2.4	1	18	SOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1	,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	BMQL	1	1	,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	. 5	8	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n	-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1	2	-CHLOROTOLUENE	BMQL	1
cis-1,2-DICHLOROETHENE	BMQL	1	1	,3,5-TRIMETHYLBENZENE	ND .	1
CHLOROFORM	3.4	1	4	-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	te	ert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	BMQL	1	1	,2,4-TRIMETHYLBENZENE	BMQL	1
1,1-DICHLOROPROPENE	ND	1	s	ec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	q	-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	1.5	1	1	,3-DICHLOROBENZENE	2.5	1
BENZENE	ND	1	1	,4-DICHLOROBENZENE	12	1
TRICHLOROETHENE	BMQL	1	n	-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1	,2-DICHLOROBENZENE	86	1
BROMODICHLOROMETHANE	ND	- 1	1	,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1	,2,4-TRICHLOROBENZENE	17	1
4-METHYL-2-PENTANONE (MiBK)	ND	1	Ян	IEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	N	IAPHTHALENE	2.1	1
TOLUENE	BMQL	1	1	,2,3-TRICHLOROBENZENE	1.4	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1	,2-DICHLOROETHANE - D4	110	76-114
2-HEXANONE (MBK)	ND	2	Т	OLUENE - D8	106	88-110
1,3-DICHLOROPROPANE	ND	1	4	-BROMOFLUOROBENZENE	96.5	86-115
COMMENTS:			reset .			

COMMENTS:

REVIEWED BY: Hubble



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager: Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-012

Client ID: Matrix: GZ-8 Water Date Sampled:

03/01/95 13:15

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Date
Analyzed
03/09/95
03/08/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager: Sampler Name:

GZA

Sample Information

Lab ID:

50620808-012

Client ID:

GZ-8

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

Detection Method Analytical Parameter Result Unit Limit No. Analytical Parameter Security On Analytical Parameter Result Unit Limit No. Analytical Parameter No. Analytica		
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Analytical Parameter Result Unit Limit No. Analytical		
Analytical Parameter Result Unit Limit No. Anal		
	nalyst Analyzed	
Detection Method	zadore za delegación de la como de la como de la como de la como de la como de la como de la como de la como d	
,一个大型,这一个大型,就是一个大型,一个大型,一个大型,一个大型,这个大型,这个大型,这个大型,这个大型,这个大型,这个大型,这个大型,这	Date	
Detection Method		

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 GZ-9

PROJECT MGR.: DATE SAMPLED: T. CARR 3/1/95

MATRIX:

AQUEOUS

DATE TESTED:

3/6/95

LABORATORY #:

Q0019

DILUTION FACTOR:

1

TARGET COMPOUND LIST		QUANT.		TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC.	LIMIT	11_	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	Т	ETRACHLOROETHENE	9.3	1
CHLOROMETHANE	ND	2	D	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1	,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	C	HLOROBENZENE	12	1
CHLOROETHANE	ND	2	1	,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	E	THYL BENZENE	BMQL	1
ACETONE	ND	25	m	n&p-XYLENES	2.0	1
1,1-DICHLOROETHENE	ND	1	0	-XYLENE	2.3	1
METHYLENE CHLORIDE	ND	1	s	TYRENE	ND	1
CARBON DISULFIDE	ND	2	В	ROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	1.8	1	IS	SOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,	,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	3.8	1	1,	,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	В	ROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n.	-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1	2.	-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	1.6	1	1,	,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	BMQL	1	4.	-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	te	ert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	4.0	1	1,	2,4-TRIMETHYLBENZENE	BMQL	1
1,1-DICHLOROPROPENE	ND	1	se	ec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p.	-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	ND	1	1,	3-DICHLOROBENZENE	1.3	1
BENZENE	ND	1	1,	4-DICHLOROBENZENE	10	1
TRICHLOROETHENE	1.0	1	n-	-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,	2-DICHLOROBENZENE	57	1
BROMODICHLOROMETHANE	ND	1	1,	2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,	2,4-TRICHLOROBENZENE	3.9	1
4-METHYL-2-PENTANONE (MiBK)	ND	1	∭н	EXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	N.	APHTHALENE	2.4	1
TOLUENE	BMQL	1	1 ,	2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,	2-DICHLOROETHANE - D4	97.2	76-114
2-HEXANONE (MBK)	ND	. 2	T	OLUENE - D8	106	88-110
1,3-DICHLOROPROPANE	ND	1	4-	BROMOFLUOROBENZENE	92.9	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY:

Hubbl



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-013

Client ID: Matrix:

Water

GZ-9

Date Sampled:

03/01/95 12:45

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

Detection Method Date Analytical Parameter Result Unit Limit No. Analyst Analyzed

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on

total cyanide result.

Cyanide, Total

ND

mg/l

0.01

335.3

jc

03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

mm

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-013

Client ID: Matrix:

Fluoride

GZ-9 Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

0.04

03/09/95

413B

	Detecti		Date
	Result Unit Limit	t No. Ana	lyst Analyzed
MISCELLANEOUS TESTING	. *	•	

mg/i

1.50

03/06/95

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462 MAC-1 AQUEOUS PROJECT MGR.: DATE SAMPLED: T. CARR 3/1/95 3/6/95

MATRIX: LABORATORY #:

Q0015

DATE TESTED: DILUTION FACTOR:

3/6/95

TARGET COMPOUND LIST		QUANT		TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC	LIMIT		8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2		TETRACHLOROETHENE	12	1
CHLOROMETHANE	5.0	2		DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2		1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2		CHLOROBENZENE	3.0	1
CHLOROETHANE	ND	2		1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4		ETHYL BENZENE	ND	1
ACETONE	140	25		m&p-XYLENES	BMQL	1
1,1-DICHLOROETHENE	ND	1		o-XYLENE	ND	1
METHYLENE CHLORIDE	8.5	1		STYRENE	ND	1
CARBON DISULFIDE	BMQL	2		BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	4.4	1		ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1		1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	1.2	1		1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	. 5		BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25		n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	, 1		2-CHLOROTOLUENE	BMQL	1
cis-1,2-DICHLOROETHENE	BMQL	1		1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	5.5	1		4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1		tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	BMQL	1		1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1		sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1		p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	1.2	1		1,3-DICHLOROBENZENE	BMQL	1
BENZENE	ND	1	▓	1,4-DICHLOROBENZENE	2.8	1
TRICHLOROETHENE	BMQL	1		n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1		1,2-DICHLOROBENZENE	11	1
BROMODICHLOROMETHANE	BMQL	1		1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1		1,2,4-TRICHLOROBENZENE	14	1
4-METHYL-2-PENTANONE (MIBK)	ND	1		HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1		NAPHTHALENE	ND	1
TOLUENE	1.2	1		1,2,3-TRICHLOROBENZENE	BMQL	1
trans-1,3-DICHLOROPROPENE	ND	1		SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1		1,2-DICHLOROETHANE - D4	109	76-114
2-HEXANONE (MBK)	ND	2		TOLUENE - D8	107	88-110
1,3-DICHLOROPROPANE	ND	1		4-BROMOFLUOROBENZENE	95.7	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY:

tuacel_



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-001

Client ID;

MAC-1

Matrix:

Water

Date Sampled:

03/01/95 13:30

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

			Detection	Method		Date
Analytical Parameter	Result	Unit	Limit	No.	Analyst	Analyzed
MISCELLANEOUS TESTING						
Cyanide, Amenable	0.1	mg/l	0.01	412	_. jw	03/09/95
Cyanide, Total	0.60	mg/l	0.01	335.3	jc ··	03/08/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-001

Client ID: Matrix: MAC-1 Water

Comment:

Fluoride

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

0.04

03/09/95

413B

mm

				8. Bu 1888 viljani 1980 viljani 1980 viljani 1980 viljani 1980 viljani 1980 viljani 1980 viljani 1980 viljani		
Analytical Parameter		Resul	lt Unit	Limit 1	No. Analyst	Analyzed
MISCELLANEOUS TES	STING					

mg/l

8.4

03/08/95

GZA GEOENVIRONMENTAL, INC. **ENVIRONMENTAL CHEMISTRY LABORATORY** 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.: SAMPLE ID: 41462

PROJECT MGR.: MAC-3 DATE SAMPLED: T. CARR

MATRIX:

AQUEOUS

DATE TESTED:

3/1/95 3/6/95

LABORATORY #:

Q0016

DILUTION FACTOR:

1

LABORATORY #: Q0016			DIEUTION FACTOR:		
TARGET COMPOUND LIST		QUANT.	TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS;	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	2.0	1
CHLOROMETHANE	4.2	2	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CHLOROBENZENE	BMQL	1
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1
ACETONE	140	25	m&p-XYLENES	BMQL	1
1,1-DICHLOROETHENE	ND	1	o-XYLENE	ND	1
METHYLENE CHLORIDE	5.7	1	STYRENE	ND	1
CARBON DISULFIDE	BMQL	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	.1
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	ND -	1
cis-1,2-DICHLOROETHENE	ND	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	3.2	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1.	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	BMQL	1
1,1-DICHLOROPROPENE	ND	. 1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND.	1
1,2-DICHLOROETHANE	ND	1	1,3-DICHLOROBENZENE	BMQL	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	2.1	,1
TRICHLOROETHENE	BMQL	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	7.5	1
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	16	1
4-METHYL-2-PENTANONE (MIBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	1.0	1
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	2.9	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	107	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	106	88-110
1,3-DICHLOROPROPANE	ND	1	4-BROMOFLUOROBENZENE	95.7	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY: Hubble



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-002

MAC-3

Client ID: Matrix:

Water

Date Sampled:

03/01/95 15:15

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

			Detection	Method		Date
Analytical Parameter	Result	Unit	Limit	No.	Analyst	Analyzed
kan nga mananana na manananananananananananana				<u> </u>		
MISCELLANEOUS TESTING						
Cyanide, Amenable	ND	mg/l	0.01	412	jw	03/09/95
Cyanide, Total	0.07	mg/l	0.01	335.3	ic	03/07/95



Client Information

Fluoride

Matrix Analytical, Inc. 106 South Street Hopkinton, MA 01748-2295 1 (800) 362-8749

FINAL REPORT

Address:	320 Needham Street Newton Upper Falls, MA 02164	Project Number: Project Manager:	41462	
	Newton Opper Lans, Mr. 02104	Sampler Name:	GZA	
nple Infor	mation ————————————————————————————————————			
Lab ID:	50620808-002	Date Sampled:	03/03/95	:
Client ID:	MAC-3	Date Received:	03/03/95	: 0
Matrix:	Water	Date Reported:	03/09/95	•
Comment:	Waterbury, CT			
		Detection	Method	Date
ytical Param	eter Res	ult Unit Limit	No.	Analyst Analyze

0.04

mg/l

413B

mm

10.0

03/08/95

GZA GEOENVIRONMENTAL, INC. **ENVIRONMENTAL CHEMISTRY LABORATORY** 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID:

MAC-4

DATE SAMPLED:

3/1/95

MATRIX:

AQUEOUS

DATE TESTED:

3/6/95

LABORATORY #:

Q0017

DILUTION FACTOR:

1

TARGET COMPOUND LIST		QUANT.	TARGET COMPOUND LIST		QUANT.
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	1.5	1
CHLOROMETHANE	5.2	2	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1
ACETONE	110	25	m&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1	o-XYLENE	ND	1
METHYLENE CHLORIDE	38	1	STYRENE	ND	1
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	BMQL	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	. ND	1
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	2.0	1
cis-1,2-DICHLOROETHENE	1.1	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	4.1	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1`	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	2.0	1	1,3-DICHLOROBENZENE	BMQL	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	1.1	1
TRICHLOROETHENE	3.3	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND .	1	1,2-DICHLOROBENZENE	3.0	1
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	18	1
4-METHYL-2-PENTANONE (MIBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ИD	1
TOLUENE	1.0	1	1,2,3-TRICHLOROBENZENE	4.9	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	107	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	107	88-110
1,3-DICHLOROPROPANE	ND	1	4-BROMOFLUOROBENZENE	94.8	86-115

COMMENTS:

ANALYZED BY:

REVIEWED BY: Ludel



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-003

Client ID: Matrix: MAC-4 Water Date Sampled:

03/01/95 14:45

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co		in de la companie de la companie de la companie de la companie de la companie de la companie de la companie de La companie de la companie de la companie de la companie de la companie de la companie de la companie de la co	Detection	Method		Date
nalytical Parameter	Result	Unit	Limit	No.	Analyst	Analyzeo
			200 C		alaan i eera i	agar saman, ya
ISCELLANEOUS TESTING						
				440		03/09/9:
Cyanide, Amenable	ND	mg/l	0.01	412	jw	05/05/5.



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager: Sampler Name:

GZA

Sample Information

Lab ID:

50620808-003

Client ID:

MAC-4

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

Detection Method Date Analytical Parameter Result Unit Limit No. Analyst Analyzed	

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID: MATRIX:

MAC-5 AQUEOUS DATE SAMPLED: DATE TESTED: 3/1/95 3/4/95

LABORATORY #:

P9999

DILUTION FACTOR:

1

LABORATORY #: P9999			DILUTION FACTOR: 1		
TARGET COMPOUND LIST	0000	QUANT.	TARGET COMPOUND LIST	20112	QUANT.
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	BMQL	1
CHLOROMETHANE	ND	2	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1
ACETONE	ND	25	m&p~XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1	o-XYLENE	ND	1
METHYLENE CHLORIDE	ND	1	STYRENE	ND	1
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND -	1	2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	ND	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	ND	1	1,3-DICHLOROBENZENE	ND	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	ND	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MIBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ND	1
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	104	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	104	88-110
1,3-DICHLOROPROPANE	ND '	1	4-BROMOFLUOROBENZENE	90.7	86-115

COMMENTS:

ANALYZED BY:

Offarabell.

REVIEWED BY:

Huber -



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Nack Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager: Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-004

Client ID: Matrix:

Water

MAC-5

Date Sampled:

03/01/95 16:45 03/03/95 : 0

Date Received:

03/10/95

Date Reported:



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager: Sampler Name:

GZA

Sample Information

Lab ID:

50620808-004

Client ID:

MAC-5

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

			<u> </u>				
MISCELLANEOUS TESTING Fluoride	·	0.10	mg/l	0.04	413B	mm	03/06/95

GZA GEOENVIRONMENTAL, INC. **ENVIRONMENTAL CHEMISTRY LABORATORY** 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID: MATRIX:

MAC-6 **AQUEOUS** DATE SAMPLED: DATE TESTED:

3/1/95 3/4/95

LABORATORY #

00001

DILUTION FACTOR:

LABORATORY #: Q0001			DILUTION FACTOR: 1		
TARGET COMPOUND LIST		QUANT.	TARGET COMPOUND LIST		QUANT
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	ND	1
CHLOROMETHANE	ND	2	DIBROMOCHLOROMETHANE	ND	1
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2
BROMOMETHANE	ND	2	CHLOROBENZENE	ND	1
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1
ACETONE	ND	25	m&p-XYLENES	ND	1
1,1-DICHLOROETHENE	ND	1	o-XYLENE	ND	1
METHYLENE CHLORIDE	ND	1	STYRENE	ND	1
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2
METHYL tert-BUTYL ETHER (MtBE)	ND	1	ISOPROPYLBENZENE	ND	1
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	1
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	ND	1
cis-1,2-DICHLOROETHENE	ND	1	1,3,5-TRIMETHYLBENZENE	ND	1
CHLOROFORM	ND	1	4-CHLOROTOLUENE	ND	1
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	ND	1
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND	1
1,2-DICHLOROETHANE	ND	1	1,3-DICHLOROBENZENE	ND	1
BENZENE	ND	1	1,4-DICHLOROBENZENE	ND	1
TRICHLOROETHENE	ND	1	n-BUTYLBENZENE	ND	1
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	ND	1
BROMODICHLOROMETHANE	ND	. 1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	ND	1
4-METHYL-2-PENTANONE (MiBK)	ND	1	HEXACHLOROBUTADIENE	ND	1
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ND	. 1
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	ND	1
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	103	76-114
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	102	88-110
1,3-DICHLOROPROPANE	ND	1	4-BROMOFLUOROBENZENE	91.6	86-115

COMMENTS:

REVIEWED BY: Hualil



FINAL REPORT

Client Information GZA GeoEnvironmental Inc. Account: Project Name: MacDermid Well Smplg-Wtby Ct. Address: 27 Naek Road Project Number: 41462 Vernon, CT 06066 Project Manager: Tim Carr/Tom Lotto Sampler Name: GZA Sample Information 50620809-005 Lab ID: Date Sampled: 03/01/95 14:50 Client ID: MAC-6 Date Received: 03/03/95 : 0 Matrix: Water Date Reported: 03/10/95 Detection Method Date

MISCELLANEOUS TESTING

Cyanide, Amenable

Amenable cyanide not analyzed based on total cyanide result.

Cyanide, Total

Analytical Parameter

ND

Result

mg/l

Unit

0.01

Limit

335.3

No.

03/07/95

Analyst

jc

Analyzed



REPORT F I N A L

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager:

Sampler Name:

GZA

Sample Information

Lab ID:

50620808-005

Client ID:

MAC-6

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

Date Method Detection Analyzed Analyst No. Limit Unit Result Analytical Parameter 03/06/95 MISCELLANEOUS TESTING 413B mm

Fluoride

0.07

mg/l

0.04

GZA GEOENVIRONMENTAL, INC. **ENVIRONMENTAL CHEMISTRY LABORATORY** 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO.: MA092

EPA METHOD 8260 ANALYSIS FOR VOLATILE ORGANICS BY GC/MS CONCENTRATION (PPB-ug/L - Aqueous)

PROJECT:

MACDERMID WELL SAMPLING - WATERBURY, CT

FILE NO.:

41462

PROJECT MGR.:

T. CARR

SAMPLE ID: MATRIX:

MAC-7 **AQUEOUS** DATE SAMPLED: DATE TESTED:

3/1/95 3/4/95

LABORATORY #:

Q0002

DILUTION FACTOR:

1

LABORATORY #: Q0002 DILUTION FACTOR:							
TARGET COMPOUND LIST		QUANT.	TARGET COMPOUND LIST		QUANT.		
8260 COMPOUNDS	CONC.	LIMIT	8260 COMPOUNDS:	CONC.	LIMIT		
DICHLORODIFLUOROMETHANE	ND	2	TETRACHLOROETHENE	ND	1		
CHLOROMETHANE	ND	2	DIBROMOCHLOROMETHANE	ND	1		
VINYL CHLORIDE	ND	2	1,2-DIBROMOETHANE (EDB)	ND	2		
BROMOMETHANE	ND	2	CHLOROBENZENE	ND	1		
CHLOROETHANE	ND	2	1,1,1,2-TETRACHLOROETHANE	ND	1		
TRICHLOROFLUOROMETHANE	ND	4	ETHYL BENZENE	ND	1		
ACETONE	38	25	m&p-XYLENES	ND	1		
1,1-DICHLOROETHENE	ND	1	o-XYLENE	. ND	1		
METHYLENE CHLORIDE	ND	1	STYRENE	ND	1		
CARBON DISULFIDE	ND	2	BROMOFORM	ND	2		
METHYL tert-BUTYL ETHER (MtBE)	7.0	1	ISOPROPYLBENZENE	ND	1		
trans-1,2-DICHLOROETHENE	ND	1	1,1,2,2-TETRACHLOROETHANE	ND	1		
1,1-DICHLOROETHANE	ND	1	1,2,3-TRICHLOROPROPANE	ND	1		
VINYL ACETATE	ND	5	BROMOBENZENE	ND	1		
2-BUTANONE (MEK)	ND	25	n-PROPYLBENZENE	ND	1		
2,2-DICHLOROPROPANE	ND	1	2-CHLOROTOLUENE	ND	1		
cis-1,2-DICHLOROETHENE	ND	1	1,3,5-TRIMETHYLBENZENE	ND	1		
CHLOROFORM	ND	1	4-CHLOROTOLUENE	ND	1		
BROMOCHLOROMETHANE	ND	1	tert-BUTYLBENZENE	ND	1		
1,1,1-TRICHLOROETHANE	ND	1	1,2,4-TRIMETHYLBENZENE	ND	1		
1,1-DICHLOROPROPENE	ND	1	sec-BUTYLBENZENE	ND	1		
CARBON TETRACHLORIDE	ND	1	p-ISOPROPYLTOLUENE	ND	1		
1,2-DICHLOROETHANE	ND	1	1,3-DICHLOROBENZENE	ND	1		
BENZENE	ND	1	1,4-DICHLOROBENZENE	ND	1		
TRICHLOROETHENE	ND	1	n-BUTYLBENZENE	ND	1		
1,2-DICHLOROPROPANE	ND	1	1,2-DICHLOROBENZENE	ND	1		
BROMODICHLOROMETHANE	ND	1	1,2-DIBROMO-3-CHLOROPROPANE	ND	5		
DIBROMOMETHANE	ND	1	1,2,4-TRICHLOROBENZENE	ND	1		
4-METHYL-2-PENTANONE (MIBK)	ND	1	HEXACHLOROBUTADIENE	ND	1		
cis-1,3-DICHLOROPROPENE	ND	1	NAPHTHALENE	ND	. 1		
TOLUENE	ND	1	1,2,3-TRICHLOROBENZENE	ND	1		
trans-1,3-DICHLOROPROPENE	ND	1	SURROGATE	% REC.	LIMITS		
1,1,2-TRICHLOROETHANE	ND	1	1,2-DICHLOROETHANE - D4	102	76-114		
2-HEXANONE (MBK)	ND	2	TOLUENE - D8	102	88-110		
1,3-DICHLOROPROPANE	ND .	1	4-BROMOFLUOROBENZENE	92.3	86-115		

COMMENTS:

Marchafil

REVIEWED BY: Ludyl



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental Inc.

Address:

27 Naek Road

Vernon, CT 06066

Project Name:

MacDermid Well Smplg-Wtby Ct.

Project Number:

41462

Project Manager:

Tim Carr/Tom Lotto

Sampler Name:

GZA

Sample Information

Lab ID:

50620809-006

Client ID: Matrix: MAC-7 Water Date Sampled:

03/01/95 09:45

Date Received:

03/03/95 : 0

Date Reported:

03/10/95

			Detection	Method		Date
Analytical Parameter	Result	Unit	Limit	No.	Analyst	Analyzed
MISCELLANEOUS TESTING						·
Cyanide, Amenable	ND	mg/l	0.01	412	jw	03/09/95
Cyanide, Total	0.13	mg/l	0.01	335.3	jc	03/07/95



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

41462

Project Manager:

Sampler Name: GZA

Sample Information

Lab ID:

50620808-006

Client ID:

MAC-7

Matrix:

Water

Comment:

Waterbury, CT

Date Sampled:

03/03/95 :

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

	Result	Unit	Limit	No.	Analyst	Analyzed
MISCELLANEOUS TESTING Fluoride	ND	mg/l	0.04	413R	mm	03/06/95

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462B.XLS **METALS ANALYSIS**

PROJECT:

MacDermid Well

Sampling, Waterbury,

CT

PROJECT MGR:

Tim Carr

JOB NO:

41462

MATRIX:

AQUEOUS

UNITS:

mg/L (ppm)

SAMPLE ID:

MAC-1

MAC-4

MAC-

BATCH NO:

03011,01295

DATE SAMPLED:

3/1/95

DATE PREPARED: 3/7/95

DATE ANALYZED: 3/14,16,22,23/95

ANALYTE	EPA METHOD	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
ver (Ag)	6010	0.028	0.007	0.055	0.007	0.010	0.007	0.011	0.007
senic (As)	7060	0.058	0.005	0.069	0.005	0.036	0.005	BDL	0.005
Barium (Ba)	6010	0.021	0.003	0.020	0.003	0.006	0.003	0.016	0.003
Cadmium (Cd)	6010	0.037	0.004	0.014	0.004	BDL	0.004	BDL	0.004
Chromium (Cr)	6010	0.500	0.005	0.200	0.005	0.014	0.005	BDL	0.005
Lead (Pb)	7421	0.016	0.003	0.055	0.003	0.013	0.003	BDL	0.003
Selenium (Se)	7740	BDL	0.005	0.094	0.005	0.056	0.005	BDL	0.005
Mercury (Hg)	7470	0.0012	0.0002	0.0015	0.0002	0.0011	0.0002	BDL	0.0002
Copper (Cu)	6010	146	0.020	162	0.020	8.68	0.020	0.060	0.020
Nickel (Ni)	6010	0.846	0.054	0.412	0.054	0.342	0.054	BDL	0.054
Zinc (Zn)	6010	6.26	0.020	7.75	0.0200	0.026	0.020	0.067	0.0200

BDL = Below Detection Limit

NA = Not Analyzed

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462B.XLs **METALS ANALYSIS**

PROJECT:

MacDermid Well

Sampling, Waterbury,

CT

PROJECT MGR:

Tim Carr

JOB NO:

41462

MATRIX:

AQUEOUS

UNITS:

mg/L (ppm)

SAMPLE ID:

MAC-6

MAC-7

GZ-2

BATCH NO:

03011,01295

DATE SAMPLED:

3/1/95

DATE PREPARED: 3/7/95

DATE ANALYZED: 3/14,16,22,23/95

ANALYTE	EPA METHOD	CONC.	D.L.	CONC.	D.L.	CONC.	D,L.	CONC.	D.L.
er (Ag)	6010	BDL	0.007	BDL	0.007	0.032	0.007	BDL	0.007
Arsenic (As)	7060	BDL	0.005	BDL	0.005	BDL	0.005	BDL	0.005
Barium (Ba)	6010	0.003	0.003	BDL	0.003	0.036	0.003	0.045	0.003
Cadmium (Cd)	6010	BDL	0.004	BDL	0.004	BDL	0.004	BDL	0.004
Chromium (Cr)	6010	BDL	0.005	0.005	0.005	0.005	0.005	0.029	0.005
Lead (Pb)	7421	BDL	0.003	BDL	0.003	0.015	0.003	BDL	0.003
Selenium (Se)	7740	BDL	0.005	BDL	0.005	BDL	0.005	0.013	0.005
Mercury (Hg)	7470	BDL	0.0002	BDL	0.0002	BDL	0.0002	BDL	0.0002
Copper (Cu)	6010	0.030	0.020	0.027	0.020	0.022	0.020	0.026	0.020
Nickel (Ni)	6010	BDL	0.054	BDL	0.054	BDL	0.054	BDL	0.054
Zinc (Zn)	6010	BDL	0.020	0.032	0.0200	BDL	0.020	BDL	0.0200

BDL = Below Detection Limit NA = Not Analyzed

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462B.XLS **METALS ANALYSIS**

PROJECT:

MacDermid Well

Sampling, Waterbury,

CT

PROJECT MGR:

Tim Carr

JOB NO:

41462

MATRIX:

AQUEOUS

UNITS:

mg/L (ppm)

SAMPLE ID:

GZ-5

GZ-6

GZ-7

GZ-8

BATCH NO:

03011,01295

DATE SAMPLED:

3/1/95

DATE PREPARED: 3/7/95

DATE ANALYZED: 3/14,16,22,23/95

ANALYTE	EPA METHOD	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.	CONC.	D.L.
lver (Ag)	6010	BDL	0.007	BDL	0.007	BDL	0.007	0.026	0.007
rsenic (As)	7060	BDL	0.005	BDL	0.005	BDL	0.005	0.059	0.005
Barium (Ba)	6010	0.089	0.003	0.067	0.003	0.465	0.003	0.015	0.003
Cadmium (Cd)	6010	BDL	0.004	BDL	0.004	BDL	0.004	0.032	0.004
Chromium (Cr)	6010	BDL	0.005	BDL	0.005	BDL	0.005	0.914	0.005
Lead (Pb)	7421	BDL	0.003	BDL	0.003	BDL	0.003	0.014	0.003
Selenium (Se)	7740	0.006	0.005	BDL	0.005	BDL	0.005	0.056	0.005
Mercury (Hg)	7470	BDL	0.0002	BDL	0.0002	BDL	0.0002	0.0005	0.0002
Copper (Cu)	6010	BDL	0.020	BDL	0.020	0.020	0.020	239	0.020
Nickel (Ni)	6010	BDL	0.054	BDL	0.054	BDL	0.054	1.14	0.054
Zinc (Zn)	6010	BDL	0.020	BDL	0.0200	BDL	0,020	16.5	0.0200

BDL = Below Detection Limit NA = Not Analyzed

Environmental Chemistry Laboratory 320 Needham St., Newton Upper Falls, MA 02164 LABORATORY ID: MA092 41462B.XLS **METALS ANALYSIS**

PROJECT:

MacDermid Well

Sampling, Waterbury,

CT

PROJECT MGR:

Tim Carr

JOB NO:

41462

MATRIX:

AQUEOUS

UNITS:

mg/L (ppm)

SAMPLE ID:

GZ-9

BATCH NO:

03011,01295

DATE SAMPLED:

3/1/95

DATE PREPARED: 3/7/95

DATE ANALYZED: 3/14,16,22,23/95

ANALYTE	EPA METHOD	CONC. D.L.
'ver (Ag)	6010	0.026 0.007
Asenic (As)	7060	BDL 0.005
Barium (Ba)	6010	0.037 0.003
Cadmium (Cd)	6010	BDL 0.004
Chromium (Cr)	6010	0.007 0.005
Lead (Pb)	7421	BDL 0.003
Selenium (Se)	7740	0.01 0.005
Mercury (Hg)	7470	BDL 0.0002
Copper (Cu)	6010	1.14 0.020
Nickel (Ni)	6010	0.408 0.054
Zinc (Zn)	6010	BDL 0.020

BDL = Below Detection Limit

NA = Not Analyzed

GZA GEOENVIRONMENTAL, INC. ENVIRONMENTAL CHEMISTRY LABORATORY 320 NEEDHAM STREET, NEWTON UPPER FALLS, MA 02164 MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 8240/8260 ANALYSIS PURGEABLES IN AQUEOUS AND/OR SOLID MATRIX

QUALITY CONTROL

DATE: 3/6/95 - SEYMOUR

AQUEOUS

048 (17.08 683 (18.08) - 27.0	MATRIX SPIKE	ACCEPTANCE	DUPLICATE SPIKE	ACCEPTANCE
COMPOUND	RECOVERY (%)	LIMITS (%)	DIFFERENCE (%)	LIMITS (%)
1,1-DICHLOROETHENE	110	60–120	0.90	20
TRICHLORETHENE	109	70–130	0	20
TOLUENE	104	70–125	1.90	20

SOLID

COMPOUND	MATRIX SPIKE RECOVERY (%)	ACCEPTANCE LIMITS (%)	DUPLICATE SPIKE DIFFERENCE (%)	
1,1-DICHLOROETHENE		60-120		35
TRICHLORETHENE		65–130		35
TOLUENE		65-125	400 May 740	35

METHOD BLANK

LABORATORY NO.:

Q0007

TOTAL COMPOUNDS DETECTED	ND	

SURROGATES	RECOVERY (%)	ACCEPTANCE LIMITS (%)
1,2-DICHLOROETHANE-D4	111	76-114
TOLUENE-D8	105	88-110
4-BROMOFLUOROBENZENE	92.2	86-115



FINAL REPORT

Account: Address:	GZA GeoEnvironmental Inc. 27 Naek Road Vernon, CT 06066	Project Name: Project Number: Project Manager: Sampler Name:	MacDermid Well Smplg-Wtby Ct. 41462 Tim Carr/Tom Lotto
mple Infor	mation		
Lab ID:	50620809-014	Date Sampled:	11:
Client ID:	QC Report -Water	Date Received:	03/03/95 : 0
Matrix:	Water	Date Reported:	03/10/95

METHOD REFERENCES

- 1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
- 2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
- 3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 17th Edition. 1989.



FINAL REPORT

Client Information

Account:

GZA GeoEnvironmental, Inc.

Address:

320 Needham Street

Newton Upper Falls, MA 02164

Project Name:

MacDermid Well Sampling (3-3-95)

Project Number:

Project Manager:

Sampler Name:

Sample Information

Lab ID:

50620808-014

Client ID:

QC Report -Water

Matrix:

Water

Date Sampled:

11:

41462

Date Received:

03/03/95 : 0

Date Reported:

03/09/95

03/09/93

						c													

Result

Unit

Detection Limit Method No.

Analyst

Date Analyzed

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.

2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.

3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 17th Edition. 1989.

WHITE COPY · Original (Accompanies Samples)

YELLOW COPY - Project Manager P

iger PINK COPY - Lab Files

G2--25 MR-1 MR. MAC 62-ユネハ・「 HELD BLANK MACI MACT RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) RELINOUISHED BY/(Sighature) RELINQUISHED BY: (Signature) RELINQUISHED BY! GZA CONTACT : TIM CARR LABORATORY CONTACT: ANALYTICAL LABORATORY: -Sample I.D. CHAIN-OF-CUSTODY RECORD 0 GZA GEOENVIRONMENTAL, INC.
ENGINEERS AND SCIENTISTS
2/ Namk Hoad
VERNON, CONNECTICUT 06066
(203) 875-7655
FAX (203) 872-2416 09:80 54:40 13:30 1245 12:45 14:50 10:40 16:45 3. H 15:15 13:15 000 11:10 7:50 Time (24hr.) TOTAL NUMBER OF CONTAINERS Bailer (PM) TEM LOTTO EXT 1 7AC TAL JAL F 72 TAL イヤし 146 コター 7 Æ 7 Col-lector's Initials TA 285 17:05 DATE/TIME DATE/TIME DATE/TIME FIELD DIANE MACEO PHONE Location Description RECEIVED BY: (Signature) RECEIVED BY; (Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature) ECEIVED/BY:/(Signature) ×0605207 NACC. WATER WATE WATE WATER WATER WATER WATER WATER NATER WATER WATER WATER WATER Sample Type NOTES, Preservatives, etc.: / / U/ ኃ()
Unless otherwise noted, all VOA vials have been preserved w/ 1:1 HCl in accordance with Mass-DEP Policy. 23.4.3 * (3) VUAS GZA FILE NO. COLLECTION(S) TOM LOTTO LOCATION MACDERMID PROJECT MACDERMID 82.80 ∇ 18070 RCRA 8 METALS & CU, NI, 1) 500 m 74462 古るはなくなくないとのうの FLUGRIDE ANALYSES REQUIRED CHEMICAL (1) 250 ml WELL SAMPLING P.O. NO. ANDREW J. CHELLETTE WIBY, C かれること لا 14 WATERBURY CIT PRESERVED Z N lη Total Cont 200 5 5 S 5 S 5 Ω 876 #ote

1

WHITE COPY - Original (Accompanies Samples)

- YELLOW COPY - Project Manager

PINK COPY - Lab Files

67-6 67-8 MAC-95-52-2 FIELD BOWN IT'SE MAC - 6 MAC-4 MAC- U RELINQUISHED BY: (Signature) MAC-7 MAC-S RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) REMNOUISHED BY: (Signature) GZA CONTACT : ILM (ARR. (FM) LABORATORY CONTACT: RELINQUISHED BY: (Signature) ANALYTICAL LABORATORY :: unsthy CHAIN-OF-CUSTODY RECORD CA:00 54:40 14: SO 10:40 GZA GEOENVIRONMENTAL, INC. 12:45 16:45 14:45 15:15 13.30 13:15 11:10 12:15 0:00 Time (24hr.) TOTAL NUMBER OF CONTAINERS ENGINEERS AND SCIENTISTS 27 Nask Road VERNON, CONNECTICUT 06066 (203) 875-7655 FAX (203) 872-2416 e er MAJELY しを日 7 140 TAL TAL 747 TAL はろ 1 TAC TAL しなし IAC Col-lector's Initials IOM LOTTO EXT 45 4.12 SY P DÁTE/TIME DATE/TIME DATE/TIME DATE/TIME DATETIME MACHULLEHONE: 5-3130 15-2:05 Location Description () RECEIVED BY: (Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature) RECEIVED BY: (Signature) BECEIVED BY: (Signature) WATER 8ample Type NOTES, Preservatives, etc.: Unless otherwise noted, all VOA vials have been preserved w/ 1:1 HCl in accordance with Mass-DEP Policy. PROJECT MACDERMIN LOCATION MACDERMID GZA FILE NO. COLLECTOR(S) __ 82.80 18010 F COLLECTION -70747 41462 Mal & AMENABLE ANALYSES REQUIRED HEMICAL j. ANDREW CHETT PO. NO. SAMPLING CYANIDE - NaCH WATERBURY SHE. 50620809-001 PRESERVED Total # of Cont. #ote

Z

877

Date: March 16, 2001

Rev. No. 0

APPENDIX F 2001 GROUNDWATER LABORATORY REPORTS

e\rdm\mac\mac-0036-ca-aocs

HRP

Associates, Inc.

Date: March 16, 2001

Rev. No. 0

200	01 GROUNDWATER INDEX	
Monitoring Well	Former Monitoring Well Designation	Page
MVV-101	MAC-6	1
MW-102	MAC-5	4
MVV-103	GZ-2	7
MVV-105	GZ-7	10
MVV-108	GZ-9	13
MVV-109	GZ-8	16
MW-109 (duplicate)	GZ-8A	19
MW-110	MAC-1	22
MW-110 (duplicate)	MAC-1A	25
MVV-111	GZ-6	28
MW-112	GZ-3	31
MW-113	GZ-5	34
MW-110 (unfiltered)	MAC-1	37
MW-109 (finger printing)	GZ-9	38
Equipment Blank		39
Field Blank		42
Trip Blank		45
MW-109 (PCBs)	GZ-9	46

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-6

EAS Sample Number: 01020133-14

LIMS ID Number: AC01823 Date Sample Received: 02/12/01

Client Project Number: MAC0036.CA MW(0)

		etection		Analysis
Parameter		<u>Limit</u>	Units	Date
Cyanide, Water	BDL	v.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	0.0062	0.005	mg/L	02/21/01
Barium, Dissolved	0.18	0.005	mg/L	02/16/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/16/01
Chromium, Dissolved	BDL	0.02	mg/L	02/16/01
Copper, Dissolved	0.011	0.01	mg/L	02/16/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/15/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/14/01
Nickel, Dissolved	BDL	0.02	mg/L	02/16/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/21/01
Silver, Dissolved	BDL	0.01	mg/L	02/16/01
Zinc, Dissolved	0.11	0.005	mg/L	02/16/01
Volatile Organic Compounds, Water				
Dichlorodifluoromethane	BDL	0.50	ug/L	02/16/01
Chloromethane	BDL	0.50	ug/L	02/16/01
Vinyl Chloride	BDL	0.50	ug/Ĺ	02/16/01
Bromomethane	BDL	0.50	ug/L	02/16/01
Chloroethane	BDL	0.50	ug/L	02/16/01
Trichlorofluoromethane	BDL .	0.50	ug/L	02/16/01
Acetone	11	5.0	ug/L	02/16/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/16/01
Methylene Chloride	BDL	0.50	ug/L	02/16/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/16/01
MTBE	BDL	0.50	ug/L	02/16/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/16/01
2 -Butanone	BDL	5.0	ug/L	02/16/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/16/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/16/01
Chloroform	BDL	0.50	ug/L	02/16/01
Bromochloromethane	BDL	0.50	ug/L	02/16/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/16/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/16/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/16/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-6

EAS Sample Number: 01020133-14

LIMS ID Number: AC01823
Date Sample Received: 02/12/01
Client Project Number: MAC0036.CA

Parameter	Data_	Detection Limit	<u>Units</u>	Analysis Date
Benzene	BDL	0.50	ug/L	02/16/01
Trichloroethene	BDL	0.50	ug/L	02/16/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/16/01
Dibromomethane	BDL	0.50	ug/L	02/16/01
Bromodichloromethane	BDL	0.50	ug/L	02/16/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/16/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/16/01
Toluene	BDL	0.50	ug/L	02/16/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/16/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/16/01
2-Hexanone	BDL	5.0	ug/L	02/16/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/16/01
Dibromochloromethane	BDL	0.50	ug/L	02/16/01
Tetrachloroethylene	BDL	0.50	ug/L	02/16/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/16/01
Chlorobenzene	BDL	0.50	ug/L	02/16/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Ethylbenzene	BDL	0.50	ug/L	02/16/01
m/p-Xylene	BDL	0.50	ug/L	02/16/01
Styrene	BDL	0.50	ug/L	02/16/01
0-Xylene	BDL	0.50	ug/L	02/16/01
Bromoform	BDL	0.50	ug/L	02/16/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Isopropylbenzene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/16/01
Bromobenzene	BDL	0.50	ug/L	02/16/01
n-Propylbenzene	BDL	0.50	ug/L	02/16/01
2-Chlorotoluene	BDL	0.50	ug/L	02/16/01
4-Chlorotoluene	BDL	0.50	ug/L	02/16/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
tert-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
sec-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-6

EAS Sample Number: 01020133-14

LIMS ID Number: AC01823 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

·		Detection		Analysis
Parameter	<u>D</u> ata	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
n-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/16/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/16/01
Napthalene	BDL	0.50	ug/L	02/16/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-5

EAS Sample Number: 01020133-13 LIMS ID Number: AC01822

Date Sample Received: 02/12/01

Client Project Number: MAC0036.CA

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		etection		Analysis
Parameter		<u>Limit</u>	Units	Date
Cyanide, Water	BDL	U.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/21/01
Barium, Dissolved	0.15	0.005	mg/L	02/16/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/16/01
Chromium, Dissolved	BDL	0.02	mg/L	02/16/01
Copper, Dissolved	0.01	0.01	mg/L	02/16/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/15/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/14/01
Nickel, Dissolved	BDL	0.02	mg/L	02/16/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/21/01
Silver, Dissolved	BDL	0.01	mg/L	02/16/01
Zinc, Dissolved	0.043	0.005	mg/L	02/16/01
Volatile Organic Compounds, Water				
Dichlorodifluoromethane	BDL	0.50	ug/L	02/16/01
Chloromethane	BDL	0.50	ug/L	02/16/01
Vinyl Chloride	BDL	0.50	ug/L	02/16/01
Bromomethane	BDL	0.50	ug/L	02/16/01
Chloroethane	BDL	0.50	ug/L	02/16/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/16/01
Acetone	14	5.0	ug/L	02/16/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/16/01
Methylene Chloride	BDL	0.50	ug/L	02/16/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/16/01
MTBE	BDL	0.50	ug/L	02/16/01
I,I-Dichloroethane	BDL	0.50	ug/L	02/16/01
2 -Butanone	BDL	5.0	ug/L	02/16/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/16/01
2,2-Dichloropropane	\mathtt{BDL}	0.50	ug/L	02/16/01
Chloroform	BDL	0.50	ug/L	02/16/01
Bromochloromethane	BDL	0.50	ug/L	02/16/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/16/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/16/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/16/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-5

EAS Sample Number: 01020133-13

LIMS ID Number: AC01822 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

		Detection		Analysis
Parameter	<u>D</u> ata	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/16/01
Trichloroethene	BDL	0.50	ug/L	02/16/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/16/01
Dibromomethane	BDL	0.50	ug/L	02/16/01
Bromodichloromethane	BDL	0.50	ug/L	02/16/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/16/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/16/01
Toluene	BDL	0.50	ug/L	02/16/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/16/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/16/01
2-Hexanone	BDL	5.0	ug/L	02/16/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/16/01
Dibromochloromethane	BDL	0.50	ug/L	02/16/01
Tetrachloroethylene	BDL	0.50	ug/L	02/16/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/16/01
Chlorobenzene	BDL	0.50	ug/L	02/16/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Ethylbenzene	BDL	0.50	ug/L	02/16/01
m/p-Xylene	BDL	0.50	ug/L	02/16/01
Styrene	BDL	0.50	ug/L	02/16/01
0-Xylene	BDL	0.50	ug/L	02/16/01
Bromoform	BDL	0.50	ug/L	02/16/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Isopropylbenzene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/16/01
Bromobenzene	BDL	0.50	ug/L	02/16/01
n-Propylbenzene	BDL	0.50	ug/L	02/16/01
2-Chlorotoluene	BDL	0.50	ug/L	02/16/01
4-Chlorotoluene	BDL	0.50	ug/L	02/16/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
tert-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
sec-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-5

EAS Sample Number: 01020133-13

LIMS ID Number: AC01822 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
n-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/16/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/16/01
Napthalene	BDL	0.50	ug/L	02/16/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-2

EAS Sample Number: 01020133-01

MW 103

LIMS ID Number: AC01656 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

Parameter BDL 0.01 mg/L 02/15/01 Cyanide, Water BDL 0.01 mg/L 02/15/01 Fluoride BDL 0.20 mg/L 02/15/01 Fluoride BDL 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.01 mg/L 02/14/01 Mercury, Dissolved BDL 0.005 mg/L 02/14/01 Mercury, Dissolved BDL 0.002 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.02 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Volatile Organic Compounds, Water Water Dichlorodifluoromethane BDL			ction		Analysis
Cyanide-Amenable, Water BDL 0.01 mg/L 02/15/01 Fluoride BDL 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.26 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.01 mg/L 02/14/01 Mercury, Dissolved BDL 0.005 mg/L 02/14/01 Mercury, Dissolved BDL 0.002 mg/L 02/14/01 Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.02 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Violatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chlorodifluoromethane BDL	Parameter		<u>nit</u>	Units	<u>Date</u>
Fluoride BDL 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.26 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/13/01 Mercury, Dissolved BDL 0.002 mg/L 02/14/01 Nickel, Dissolved BDL 0.002 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.02 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Zinc, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 mg/L 02/14/01 Zinc, Dissolved BDL 0.066 0.005 mg/L <td>Cyanide, Water</td> <td>BDL</td> <td>0.01</td> <td>mg/L</td> <td>02/15/01</td>	Cyanide, Water	BDL	0.01	mg/L	02/15/01
Fluoride	Cyanide-Amenable, Water	BDL	0.01	mg/L	02/15/01
Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.26 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.002 mg/L 02/14/01 Copper, Dissolved BDL 0.005 mg/L 02/13/01 Lead-Low Level, Dissolved BDL 0.0002 mg/L 02/13/01 Mercury, Dissolved BDL 0.002 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.002 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Zinc, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 ug/L <td< td=""><td>Fluoride</td><td>BDL</td><td>0.20</td><td>_</td><td>02/14/01</td></td<>	Fluoride	BDL	0.20	_	02/14/01
Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/13/01 Mercury, Dissolved BDL 0.002 mg/L 02/11/01 Nickel, Dissolved BDL 0.002 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.00 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.050 ug/L 02/20/0	Arsenic-Low Level, Dissolved	BDL	0.005	_	02/14/01
Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/13/01 Mercury, Dissolved BDL 0.0002 mg/L 02/19/01 Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Violatile Organic Compounds, Water 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water BDL 0.50 ug/L 02/20/01 Chlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L	Barium, Dissolved	0.26	0.005	mg/L	02/14/01
Copper, Dissolved BDL 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/13/01 Mercury, Dissolved BDL 0.0002 mg/L 02/19/01 Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Unity Colleganic Compounds, Water Wight 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01	Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Lead-Low Level, Dissolved BDL 0.005 mg/L 02/13/01 Mercury, Dissolved BDL 0.0002 mg/L 02/19/01 Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/20/01 Volatile Organic Compounds, Water BDL 0.50 ug/L 02/20/01 Volatile Organic Compounds, Water BDL 0.50 ug/L 02/20/01 Chlorodifluoromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 1,1- Dichloroethene	Chromium, Dissolved	. BDL	0.02	mg/L	02/14/01
Mercury, Dissolved BDL 0.0002 mg/L 02/19/01 Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved 0.066 0.005 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water 0.50 ug/L 02/20/01 Chlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01	Copper, Dissolved	BDL	0.01	mg/L	02/14/01
Nickel, Dissolved BDL 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved 0.066 0.005 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/14/01 Vol2/12/01	Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/13/01
Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Volatile Organic Compounds, Water Vol214/01 Vol220/01 Vol220/01 Ug/L 02/20/01 02/20/01 Ug/L 02/20/01 02/20/01 Ug/L 02/20/01 02/20/01 Occion Ug/L 02/20/01 02/20/0	Mercury, Dissolved	BDL	0.0002	_	02/19/01
Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 0.50 <	Nickel, Dissolved	BDL	0.02	mg/L	02/14/01
Zinc, Dissolved 0.066 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 0.50 ug/L 02/20/01 <td>Selenium-Low Level, Dissolved</td> <td>BDL</td> <td>0.005</td> <td>mg/L</td> <td>02/14/01</td>	Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L 02/20/01 O.50 O.50 Ug/L O.50/01 O.50 O.50 Ug/L O.50/01 O.50 O.50 Ug/L O.50/01	Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Volatile Organic Compounds, Water BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 0.50 ug/L 02/20/01 cis-1,2-Dichl	Zinc, Dissolved	0.066	0.005	mg/L	02/14/01
Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 0.50 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform	Volatile Organic Compounds, Water		**	J	•
Chloromethane BDL 0.50 ug/L 02/20/01 Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 0.50 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform		BDL	0.50	ug/L	02/20/01
Vinyl Chloride BDL 0.50 ug/L 02/20/01 Bromomethane BDL 0.50 ug/L 02/20/01 Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Chloromethane	BDL	0.50	-	02/20/01
Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Vinyl Chloride	BDL	0.50	•	02/20/01
Chloroethane BDL 0.50 ug/L 02/20/01 Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Bromomethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane BDL 0.50 ug/L 02/20/01 Acetone 9.4 5.0 ug/L 02/20/01 1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Chloroethane	BDL	0.50		02/20/01
1,1- Dichloroethene BDL 0.50 ug/L 02/20/01 Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Trichlorofluoromethane	BDL	0.50		02/20/01
Methylene Chloride BDL 0.50 ug/L 02/20/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Acetone	9.4	5.0	ug/L	02/20/01
trans-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE BDL 0.50 ug/L 02/20/01 1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2-Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	Methylene Chloride	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane BDL 0.50 ug/L 02/20/01 2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2 -Butanone BDL 5.0 ug/L 02/20/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	MTBE	BDL	0.50	ug/L	02/20/01
cis-1,2-Dichloroethene BDL 0.50 ug/L 02/20/01 2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane BDL 0.50 ug/L 02/20/01 Chloroform BDL 0.50 ug/L 02/20/01	2 -Butanone	BDL	5.0	ug/L	02/20/01
Chloroform BDL 0.50 ug/L 02/20/01	cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
Chloroform BDL 0.50 ug/L 02/20/01	2,2-Dichloropropane	BDL	0.50	_	02/20/01
_	Chloroform	BDL	0.50	-	02/20/01
	Bromochloromethane	BDL	0.50	ug/L	02/20/01

1,1,1-Trichloroethane

Carbon Tetrachloride

1,1-Dichloropropene

1,2-Dichloroethane

BDL

BDL

BDL

BDL

0.50

0.50

0.50

0.50

02/20/01

02/20/01

02/20/01

02/20/01

ug/L

ug/L

ug/L

ug/L

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-2

EAS Sample Number: 01020133-01

LIMS ID Number: AC01656 Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	BDL	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	\mathtt{BDL}	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01
			<u> </u>	

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-2

EAS Sample Number: 01020133-01

LIMS ID Number: AC01656 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-7

EAS Sample Number: 01020133-05

LIMS ID Number: AC01660 Date Sample Received: 02/08/01

		ection		Analysis
Parameter		<u>mit</u>	Units	Date
Cyanide, Water	BDL	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.20	0.005	mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	BDL	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/19/01
Nickel, Dissolved	BDL	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	0.059	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water				
Dichlorodifluoromethane	BDL	0.50	ug/L	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane	5.3	0.50	ug/L	02/20/01
Acetone	7.0	5.0	ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	1.5	0.50	ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	0.74	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-7

EAS Sample Number: 01020133-05

LIMS ID Number: AC01660 Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	8.2	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	\mathtt{BDL}	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	\mathtt{BDL}	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-7

EAS Sample Number: 01020133-05

LIMS ID Number: AC01660 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-9

EAS Sample Number: 01020133-08

LIMS ID Number: AC01663 Date Sample Received: 02/08/01

Client Project Number: MAC0036.CH

MW108

		ection		Analysis
Parameter	Data	Limit	Units	Date
Cyanide, Water	BDL	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	2.6	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.16	0.005	mg/L	02/14/01
Cadmium, Dissolved .	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	0.38	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/19/0i
Nickel, Dissolved	0.24	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	0.098	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water			_	
Dichlorodifluoromethane	BDL	0.50	ug/L	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	2.7	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	1.0	0.50	ug/L	02/20/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/20/01
Acetone	7.9	5.0	. ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	0.54	0.50	ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	8.6	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	3.7	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	BDL	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	1.9	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-9

EAS Sample Number: 01020133-08

LIMS ID Number: AC01663
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

Data BDL 0.92 BDL BDL BDL	Limit 0.50 0.50 0.50 0.50	Units ug/L ug/L ug/L	Date 02/20/01 02/20/01 02/20/01
0.92 BDL BDL BDL	0.50 0.50	ug/L	02/20/01
BDL BDL BDL	0.50	ug/L	
BDL BDL			02/20/01
BDL	0.50		04/40/01
		ug/L	02/20/01
DDI	0.50	ug/L	02/20/01
BUL	5.0	-	02/20/01
BDL	0.50	-	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50		02/20/01
BDL	5.0	-	02/20/01
BDL	0.50	-	02/20/01
BDL	0.50	-	02/20/01
16	0.50	~	02/20/01
BDL	0.50	-	02/20/01
8.3	0.50	-	02/20/01
BDL	0.50	-	02/20/01
BDL	0.50	_	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
2.4	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
BDL .	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
1.0	0.50	ug/L	02/20/01
BDL	0.50	ug/L	02/20/01
0.98	0.50		02/20/01
2.0	0.50	-	02/20/01
0.51	0.50	•	02/20/01
	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL 0.50 BDL 0.50 BDL 0.50 BDL 0.50 BDL 0.50 BDL 5.0 BDL 0.50	BDL 5.0 ug/L BDL 0.50 ug/L <tr< td=""></tr<>

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-9

EAS Sample Number: 01020133-08

LIMS ID Number: AC01663 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Analysis		
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	12	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	2.4	0.50	ug/L	02/20/01
Napthalene	1.2	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-8

EAS Sample Number: 01020133-06

LIMS ID Number: AC01661 Date Sample Received: 02/08/01

Client Project Number: MAC0036.CH

MW 109

		ection		Analysis
Parameter		<u>imit</u>	Units	Date
Cyanide, Water	0.064	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	0.012	0.01	mg/L	02/22/01
Fluoride	0.66	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.16	0.005	mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	0.026	0.02	mg/L	02/14/01
Copper, Dissolved	4.1	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	0.008	0.0004	mg/L	02/21/01
Nickel, Dissolved	0.85	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	0.064	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water			_	•
Dichlorodifluoromethane	BDL	0.50	ug/L	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane	BDL	0.50	. ug/L	02/20/01
Acetone	230	5.0	ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	0.99	0.50	′ug/L	02/20/01
trans-1,2-Dichloroethene	0.99	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	0.92	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	0.55	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	5.7	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-8

EAS Sample Number: 01020133-06

LIMS ID Number: AC01661
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	<u>Data</u>	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	7.7	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	4.7	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	0.59	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	0.74	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50 ,	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	0.91	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01

BDL = Below Detection Limit

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-8

EAS Sample Number: 01020133-06

LIMS ID Number: AC01661 Date Sample Received: 02/08/01

		Analysis		
Parameter	Data	Limit	<u>Units</u>	Date
1,2-Dichlorobenzene	5.5	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	33	0.50	ug/L	02/20/01
Napthalene	0.56	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-8A

EAS Sample Number: 01020133-07 LIMS ID Number: AC01662 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

Cyanide, Water 0.063 0.01 mg/L 02/22/01 Cyanide-Amenable, Water BDL 0.01 mg/L 02/22/01 Fluoride 0.68 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.20 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chomium, Dissolved BDL 0.005 mg/L 02/14/01 Choper, Dissolved BDL 0.00 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0005 mg/L 02/12/01 Mickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.002 mg/L 02/14/01 Zinc, Dissolved BDL 0.00 mg/L	Parameter	_Data	Detection Limit	Units	Analysis Date
Cyanide-Amenable, Water BDL 0.01 mg/L 02/22/01 Fluoride 0.68 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.20 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.005 mg/L 02/14/01 Copper, Dissolved 3.7 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/14/01 Silver, Dissolved 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Vincer, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 <td></td> <td></td> <td></td> <td></td> <td></td>					
Fluoride 0.68 0.20 mg/L 02/14/01 Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Barium, Dissolved 0.20 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved BDL 0.005 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/21/01 Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.05 ug/L 02/21/01	•				
Arsenic-Low Level, Dissolved BDL 0.005 mg/L 02/14/01	•			•	
Barium, Dissolved 0.20 0.005 mg/L 02/14/01 Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved 3.7 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Zinc, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 mg/L 02/14/01 Zinc, Dissolved BDL 0.05 mg/L 02/14/01 Zinc, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved BDL 0.01 mg/L 02/21/01 Zinc, Dissolved BDL 0.05 mg/L 02/21/01				-	
Cadmium, Dissolved BDL 0.005 mg/L 02/14/01 Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved 3.7 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/21/01 Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.50 ug/L 02				-	
Chromium, Dissolved BDL 0.02 mg/L 02/14/01 Copper, Dissolved 3.7 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/21/01 Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved BDL 0.005 mg/L 02/14/01 Violatile Organic Compounds, Water War War 0.005 mg/L 02/14/01 Chloromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Winyl Chloride BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug				_	
Copper, Dissolved 3.7 0.01 mg/L 02/14/01 Lead-Low Level, Dissolved BDL 0.005 mg/L 02/12/01 Mercury, Dissolved 0.0081 0.0004 mg/L 02/21/01 Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Vinyl Chloride BDL 0.50 ug/L 02/21/01 Vinyl Chloride BDL 0.50 ug/L 02/21/01 Vinyl Chloride BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug/L 02/21/01 1,1-Dichloroethene BDL 0.50				-	
December December				-	
Mercury, Dissolved 0.0081 0.0004 mg/L 02/21/01 Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Violatile Organic Compounds, Water Volatile Organic Compounds, Water Wag/L 0.20/21/01 Dichlorodifluoromethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Winyl Chloride BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 1,1- Dichloroethene BDL 0.50 ug/L 02/21/01 Mathylene Chloride 1.0 0.50 ug/L 02/21/01<	• •			•	
Nickel, Dissolved 0.74 0.02 mg/L 02/14/01 Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Organic Compounds Volutile Org				_	
Selenium-Low Level, Dissolved BDL 0.005 mg/L 02/14/01 Silver, Dissolved 0.082 0.005 mg/L 02/14/01 Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Dichlorodifluoromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 Methylene Chloride 1.0 0.50 ug/L 02/21/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50	·			_	
Silver, Dissolved BDL 0.01 mg/L 02/14/01 Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water Wight 0.50 ug/L 02/21/01 Dichlorodifluoromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 1,1- Dichloroethene BDL 0.50 ug/L 02/21/01 Methylene Chloride 1.0 0.50 ug/L 02/21/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01				-	
Zinc, Dissolved 0.082 0.005 mg/L 02/14/01 Volatile Organic Compounds, Water BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 1,1- Dichloroethene BDL 0.50 ug/L 02/21/01 Methylene Chloride 1.0 0.50 ug/L 02/21/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01	·			_	
Volatile Organic Compounds, Water BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Chloromethane BDL 0.50 ug/L 02/21/01 Vinyl Chloride BDL 0.50 ug/L 02/21/01 Bromomethane BDL 0.50 ug/L 02/21/01 Chloroethane BDL 0.50 ug/L 02/21/01 Trichlorofluoromethane BDL 0.50 ug/L 02/21/01 Acetone 210 5.0 ug/L 02/21/01 1,1- Dichloroethene BDL 0.50 ug/L 02/21/01 Methylene Chloride 1.0 0.50 ug/L 02/21/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 MTBE BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 2,2-				-	
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Methylene Chloride 1.0 0.50 ug/L 02/21/01 trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 MTBE BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2 - Butanone BDL 5.0 ug/L 02/21/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,2-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	1,1- Dichloroethene	BDL	0.50	_	02/21/01
trans-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 MTBE BDL 0.50 ug/L 02/21/01 1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2 -Butanone BDL 5.0 ug/L 02/21/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,2-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	Methylene Chloride	1.0	0.50	-	02/21/01
1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2 -Butanone BDL 5.0 ug/L 02/21/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	trans-1,2-Dichloroethene	BDL	0.50	_	02/21/01
1,1-Dichloroethane 1.0 0.50 ug/L 02/21/01 2 -Butanone BDL 5.0 ug/L 02/21/01 cis-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	MTBE	BDL	0.50	ug/L	02/21/01
cis-1,2-Dichloroethene BDL 0.50 ug/L 02/21/01 2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	1,1-Dichloroethane	1.0	0.50	-	02/21/01
2,2-Dichloropropane BDL 0.50 ug/L 02/21/01 Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	2 -Butanone	BDL	5.0	ug/L	02/21/01
Chloroform 1.0 0.50 ug/L 02/21/01 Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	2,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Bromochloromethane BDL 0.50 ug/L 02/21/01 1,1,1-Trichloroethane 0.60 0.50 ug/L 02/21/01 1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	Chloroform	1.0	0.50		02/21/01
1,1-Dichloropropene BDL 0.50 ug/L 02/21/01 1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	Bromochloromethane	BDL	0.50		02/21/01
1,2-Dichloroethane 6.5 0.50 ug/L 02/21/01	1,1,1-Trichloroethane	0.60	0.50	ug/L	02/21/01
	1,1-Dichloropropene	BDL	0.50	ug/L	02/21/01
· ·	1,2-Dichloroethane	6.5	0.50	-	02/21/01
	Carbon Tetrachloride	BDL	0.50	-	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-8A

EAS Sample Number: 01020133-07

LIMS ID Number: AC01662 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/21/01
Trichloroethene	BDL	0.50	ug/L	02/21/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromomethane	BDL	0.50	ug/L	02/21/01
Bromodichloromethane	BDL	0.50	ug/L	02/21/01
4-Methyl-2-Pentanone	7.8	5.0	ug/L	02/21/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
Toluene	BDL	0.50	ug/L	02/21/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/21/01
2-Hexanone	BDL	5.0	ug/L	02/21/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromochloromethane	BDL	0.50	ug/L	02/21/01
Tetrachloroethylene	4.6	0.50	ug/L	02/21/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/21/01
Chlorobenzene	0.70	0.50	ug/L	02/21/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Ethylbenzene	BDL	0.50	ug/L	02/21/01
m/p-Xylene	BDL	0.50	ug/L	02/21/01
Styrene	BDL	0.50	ug/L	02/21/01
0-Xylene	BDL	0.50	ug/L	02/21/01
Bromoform	BDL	0.50	ug/L	02/21/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Isopropylbenzene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/21/01
Bromobenzene	BDL	0.50	ug/L	02/21/01
n-Propylbenzene	BDL	0.50	ug/L	02/21/01
2-Chlorotoluene	0.80	0.50	ug/L	02/21/01
4-Chlorotoluene	BDL	0.50	ug/L	02/21/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
tert-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
sec-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,3-Dichlorobenzene	1.0	0.50	ug/L	02/21/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-8A

EAS Sample Number: 01020133-07

LIMS ID Number: AC01662
Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	<u>Data</u>	Limit	Units	Date
1,2-Dichlorobenzene	5.8	0.50	ug/L	02/21/01
n-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/21/01
1,2,4-Trichlorobenzene	31	0.50	ug/L	02/21/01
Napthalene .	0.60	0.50	ug/L	02/21/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1

EAS Sample Number: 01020133-09

LIMS ID Number: AC01664 Date Sample Received: 02/08/01

Client Project Number: MAC0036.CH

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		ection		Analysis
Parameter		<u>imit</u>	Units	Date
Cyanide, Water	0.012	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	0.60	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.15	0.005	mg/L	02/14/01
Cadmium, Dissolved	0.083	0.005	mg/L	02/14/01
Chromium, Dissolved	0.086	0.02	mg/L	02/14/01
Copper, Dissolved	13	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	0.001	0.0002	mg/L	02/19/01
Nickel, Dissolved	1.5	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	0.043	0.01	mg/L	02/14/01
Zinc, Dissolved	2.9	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water				
Dichlorodifluoromethane	BDL	0.50	ug/L	02/21/01
Chloromethane	0.88	0.50	ug/L	02/21/01
Vinyl Chloride	BDL	0.50	ug/L	02/21/01
Bromomethane	BDL	0.50	ug/L·	02/21/01
Chloroethane	BDL	0.50	ug/L	02/21/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/21/01
Acetone	45	5.0	ug/L	02/21/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/21/01
Methylene Chloride	BDL	0.50	ug/L	02/21/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
MTBE	BDL	0.50	ug/L	02/21/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/21/01
2 -Butanone	BDL	5.0	ug/L	02/21/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Chloroform	5.7	0.50	ug/L	02/21/01
Bromochloromethane	BDL	0.50	ug/L	02/21/01
1,1,1-Trichloroethane	0.69	0.50	ug/L	02/21/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,2-Dichloroethane	1.4	0.50	ug/L	02/21/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1

EAS Sample Number: 01020133-09

LIMS ID Number: AC01664
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/21/01
Trichloroethene	BDL	0.50	ug/L	02/21/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromomethane	BDL	0.50	ug/L	02/21/01
Bromodichloromethane	BDL	0.50	ug/L	02/21/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	10/12/20
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
Toluene	93	0.50	ug/L	02/21/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/21/01
2-Hexanone	BDL	5.0	ug/L	02/21/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromochloromethane	BDL	0.50	ug/L	02/21/01
Tetrachloroethylene	BDL	0.50	ug/L	02/21/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/21/01
Chlorobenzene	BDL	0.50	ug/L	02/21/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Ethylbenzene	BDL	0.50	ug/L	02/21/01
m/p-Xylene	BDL	0.50	ug/L	02/21/01
Styrene	BDL	0.50	ug/L	02/21/01
0-Xylene	BDL	0.50	ug/L	02/21/01
Bromoform	BDL	0.50	ug/L	02/21/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Isopropylbenzene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/21/01
Bromobenzene	BDL	0.50	ug/L	02/21/01
n-Propylbenzene	BDL	0.50	ug/L	02/21/01
2-Chlorotoluene	BDL	0.50	ug/L	02/21/01
4-Chlorotoluene	BDL	0.50	ug/L	02/21/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
tert-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
sec-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/21/01
		•	-	

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1

EAS Sample Number: 01020133-09

LIMS ID Number: AC01664
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	0.53	0.50	ug/L	02/21/01
n-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/21/01
1,2,4-Trichlorobenzene	5.0	0.50	ug/L	02/21/01
Napthalene	BDL	0.50	ug/L	02/21/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1A EAS Sample Number: 01020133-10 LIMS ID Number: AC01665

Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Cyanide, Water	0.086	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	0.012	0.01	mg/L	02/22/01
Fluoride	0.55	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.17	0.005	mg/L	02/14/01
Cadmium, Dissolved	0.089	0.005	mg/L	02/14/01
Chromium, Dissolved	0.036	0.02	mg/L	02/14/01
Copper, Dissolved	12 '	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	0.0009	0.0002	mg/L	02/19/01
Nickel, Dissolved	1.6	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	0.041	0.01	mg/L	02/14/01
Zinc, Dissolved	3.0	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water	•		, –	
Dichlorodifluoromethane	0.51	0.50	ug/L	02/21/01
Chloromethane	0.91	0.50	ug/L	02/21/01
Vinyl Chloride	BDL	0.50	ug/L	02/21/01
Bromomethane	BDL	0.50	ug/L	02/21/01
Chloroethane	BDL	0.50	ug/L	02/21/01
Trichlorofluoromethane	BDL ·	0.50	ug/L	02/21/01
Acetone	30	5.0	ug/L	02/21/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/21/01
Methylene Chloride	BDL	0.50	ug/L	02/21/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
MTBE	BDL	0.50	ug/L	02/21/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/21/01
2 -Butanone	BDL	5.0	ug/L	02/21/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Chloroform	5.9	0.50	ug/L	02/21/01
Bromochloromethane	BDL	0.50	ug/L	02/21/01
1,1,1-Trichloroethane	0.69	0.50	ug/L	02/21/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,2-Dichloroethane	1.3	0.50	ug/L	02/21/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1A EAS Sample Number: 01020133-10 LIMS ID Number: AC01665

Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	<u>Limit</u>	Units	<u>Date</u>
Benzene	BDL	0.50	ug/L	02/21/01
Trichloroethene	BDL	0.50	ug/L	02/21/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromomethane	BDL	0.50	ug/L	02/21/01
Bromodichloromethane	BDL	0.50	ug/L	02/21/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/21/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
Toluene	BDL	0.50	ug/L	02/21/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/21/01
2-Hexanone	BDL	5.0	ug/L	02/21/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromochloromethane	BDL	0.50	ug/L	02/21/01
Tetrachloroethylene	94	0.50	ug/L	02/21/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/21/01
Chlorobenzene	BDL	0.50	ug/L	02/21/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Ethylbenzene	BDL	0.50	ug/L	02/21/01
m/p-Xylene	BDL	0.50	ug/L	02/21/01
Styrene	BDL	0.50	ug/L	02/21/01
0-Xylene	BDL	0.50	ug/L	02/21/01
Bromoform	BDL	0.50	ug/L	02/21/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Isopropylbenzene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/21/01
Bromobenzene	BDL	0.50	ug/L	02/21/01
n-Propylbenzene	BDL	0.50	ug/L	02/21/01
2-Chlorotoluene	BDL	0.50	ug/L	02/21/01
4-Chlorotoluene	BDL	0.50	ug/L	02/21/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
tert-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
sec-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: MAC-1A EAS Sample Number: 01020133-10

LIMS ID Number: AC01665 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
n-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/21/01
1,2,4-Trichlorobenzene	1.7	0.50	ug/L	02/21/01
Napthalene	BDL	0.50	ug/L	02/21/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-6

EAS Sample Number: 01020133-04 LIMS ID Number: AC01659 Date Sample Received: 02/08/01

Client Project Number: MAC0036.CH

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		tion		Analysis
Parameter		it	Units	Date
Cyanide, Water	BDL	0.01	mg/L	02/15/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.42	0.005	mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	0.014	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	· BDL	0.0002	mg/L	02/19/01
Nickel, Dissolved	BDL	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	0.15	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water			_	
Dichlorodifluoromethane	2.0	0.50	ug/L	02/21/01
Chloromethane	BDĹ	0.50	ug/L	02/21/01
Vinyl Chloride	0.75	0.50	ug/L	02/21/01
Bromomethane	BDL	0.50	ug/L	02/21/01
Chloroethane	5.1	0.50	ug/L	02/21/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/21/01
Acetone	11	5.0	ug/L	02/21/01
1,1-Dichloroethene	0.50	0.50	ug/L	02/21/01
Methylene Chloride	BDL	0.50	ug/L	02/21/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/21/01
MTBE	BDL	0.50	ug/L	02/21/01
1,1-Dichloroethane	42	0.50	ug/L	02/21/01
2 -Butanone	BDL	5.0	ug/L	02/21/01
cis-1,2-Dichloroethene	1.2	0.50	ug/L	02/21/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Chloroform	BDL	0.50	ug/L	02/21/01
Bromochloromethane	BDL	0.50	ug/L	02/21/01
1,1,1-Trichloroethane	1.9	0.50	ug/L	02/21/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,2-Dichloroethane	17	0.50	ug/L	02/21/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-6

EAS Sample Number: 01020133-04

LIMS ID Number: AC01659
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

·		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/21/01
Trichloroethene	0.84	0.50	ug/L	02/21/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromomethane	BDL	0.50	ug/L	02/21/01
Bromodichloromethane	BDL	0.50	ug/L	02/21/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/21/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
Toluene	BDL	0.50	ug/L	02/21/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/21/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/21/01
2-Hexanone	BDL	5.0	ug/L	02/21/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/21/01
Dibromochloromethane	BDL	0.50	ug/L	02/21/01
Tetrachloroethylene	9.4	0.50	ug/L	02/21/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/21/01
Chlorobenzene	BDL	0.50	ug/L	02/21/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Ethylbenzene	BDL	0.50	ug/L	02/21/01
m/p-Xylene	BDL	0.50	ug/L	02/21/01
Styrene	BDL	0.50	ug/L	02/21/01
0-Xylene	BDL	0.50	ug/L	02/21/01
Bromoform	BDL	0.50	ug/L	02/21/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/21/01
Isopropylbenzene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/21/01
Bromobenzene	BDL	0.50	ug/L	02/21/01
n-Propylbenzene	BDL	0.50	ug/L	02/21/01
2-Chlorotoluene	BDL	0.50	ug/L	02/21/01
4-Chlorotoluene	BDL	0.50	ug/L	02/21/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/21/01
tert-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2,4-Trimethylbenzene	BDL	0.50		02/21/01
sec-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-6

EAS Sample Number: 01020133-04

LIMS ID Number: AC01659 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

	Detection			
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/21/01
n-Butylbenzene	BDL	0.50	ug/L	02/21/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/21/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/21/01
Napthalene	BDL	0.50	ug/L	02/21/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/21/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/21/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-3

EAS Sample Number: 01020133-02

LIMS ID Number: AC01657

Date Sample Received: 02/08/01

Client Project Number: MAC0036.CH

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Parameter		etection Limit	Units	Analysis Date
Cyanide, Water	BDL	0.01	mg/L	02/15/01
Cyanide, Water Cyanide-Amenable, Water	BDL	0.01	mg/L	02/15/01
Fluoride	BDL	0.20	mg/L mg/L	02/13/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L mg/L	02/14/01
Barium. Dissolved	0.27	0.005	mg/L mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	BDL	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/12/01
Nickel, Dissolved	BDL	0.00	mg/L	02/19/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.003	-	02/14/01
Zinc, Dissolved	0.16	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water	0.10	0.003	mg/L	02/14/01
Dichlorodifluoromethane	BDL	0.50	/I	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L ug/L	02/20/01
Chloroethane	BDL	0.50	=	02/20/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/20/01
Acetone	BDL	5.0	ug/L ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L ug/L	02/20/01
Methylene Chloride	BDL	0.50	ug/L ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	-	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	BDL	0.50	ug/L	
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/20/01
			ug/L	02/20/01
1,1-Dichloropropene 1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01
Carbon retracmoride	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-3

EAS Sample Number: 01020133-02

LIMS ID Number: AC01657 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	<u>Data</u>	<u>Limit</u>	Units	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	0.81	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	3.0	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-3

EAS Sample Number: 01020133-02

LIMS ID Number: AC01657 Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-5
EAS Sample Number: 01020133-03 LIMS ID Number: AC01658

Date Sample Received: 02/08/01	MW113
Client Project Number: MAC0036.CH	713411)

Parameter		etection Limit	Units	Analysis Date
Cyanide, Water	BDL	0.01	mg/L	02/15/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/15/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	0.44	0.005	mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	BDL	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/19/01
Nickel, Dissolved	BDL	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	0.16	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water				,
Dichlorodifluoromethane	BDL	0.50	ug/L	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/20/01
Acetone	14	5.0	ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	BDL	0.50	ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	BDL	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: GZ-5

EAS Sample Number: 01020133-03

LIMS ID Number: AC01658 Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	<u>Units</u>	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	BDL	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	0.56	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	0.70	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	1.6	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	0.91	0.50	ug/L	02/20/01
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Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01

Sample Description: GZ-5

EAS Sample Number: 01020133-03

LIMS ID Number: AC01658

Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: MAC-1

EAS Sample Number: 01020133-16

LIMS ID Number: AC01825 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

	Detection		Analysis
Data	Limit	Units	Date
BDL	0.005	mg/L	02/21/01
0.31	0.005	mg/L	02/16/01
0.11	0.005	mg/L	02/16/01
1.4	0.02	mg/L	02/16/01
36	0.01	mg/L	02/16/01
0.006	0.005	mg/L	02/15/01
0.006	0.0002	mg/L	02/14/01
1.6	0.02	mg/L	02/16/01
BDL	0.005	mg/L	02/21/01
0.16	0.01	mg/L	02/16/01
4.9	0.005	mg/L	02/16/01
	BDL 0.31 0.11 1.4 36 0.006 0.006 1.6 BDL 0.16	Data Limit BDL 0.005 0.31 0.005 0.11 0.005 1.4 0.02 36 0.01 0.006 0.005 0.006 0.0002 1.6 0.02 BDL 0.005 0.16 0.01	Data Limit Units BDL 0.005 mg/L 0.31 0.005 mg/L 0.11 0.005 mg/L 1.4 0.02 mg/L 36 0.01 mg/L 0.006 0.005 mg/L 0.006 0.0002 mg/L 1.6 0.02 mg/L BDL 0.005 mg/L 0.16 0.01 mg/L

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: Eq. Blank EAS Sample Number: 01020133-11 LIMS ID Number: AC01666 Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	<u>Data</u>	<u>Limit</u>	<u>Units</u>	Date
Cyanide, Water	BDL	0.01	mg/L	02/22/01
Cyanide-Amenable, Water	BDL	0.01	mg/L	02/22/01
Fluoride	BDL	0.20	mg/L	02/14/01
Arsenic-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Barium, Dissolved	BDL	0.005	mg/L	02/14/01
Cadmium, Dissolved	BDL	0.005	mg/L	02/14/01
Chromium, Dissolved	BDL	0.02	mg/L	02/14/01
Copper, Dissolved	BDL	0.01	mg/L	02/14/01
Lead-Low Level, Dissolved	BDL	0.005	mg/L	02/12/01
Mercury, Dissolved	BDL	0.0002	mg/L	02/19/01
Nickel, Dissolved	BDL	0.02	mg/L	02/14/01
Selenium-Low Level, Dissolved	BDL	0.005	mg/L	02/14/01
Silver, Dissolved	BDL	0.01	mg/L	02/14/01
Zinc, Dissolved	BDL	0.005	mg/L	02/14/01
Volatile Organic Compounds, Water			J	
Dichlorodifluoromethane	BDL	0.50	ug/L	02/20/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/20/01
Acetone	11	5.0	ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	2.2	0.50	ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	BDL	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01
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Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: Eq. Blank EAS Sample Number: 01020133-11 LIMS ID Number: AC01666

Date Sample Received: 02/08/01 Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	, ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	BDL	0.50	ug/L	02/20/01
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	· ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: Eq. Blank EAS Sample Number: 01020133-11

LIMS ID Number: AC01666 Date Sample Received: 02/08/01

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: Field Blank EAS Sample Number: 01020133-12

LIMS ID Number: AC01667 Date Sample Received: 02/08/01

	_	Detection		Analysis
Parameter	Data	Limit	Units	Date
Volatile Organic Compounds, Water				
Dichlorodifluoromethane	BDL	0.50	ug/L	02/2,0/01
Chloromethane	BDL	0.50	ug/L	02/20/01
Vinyl Chloride	BDL	0.50	ug/L	02/20/01
Bromomethane	BDL	0.50	ug/L	02/20/01
Chloroethane	BDL	0.50	ug/L	02/20/01
Trichlorofluoromethane	BDL	0.50	ug/L	02/20/01
Acetone	8.1	5.0	ug/L	02/20/01
1,1- Dichloroethene	BDL	0.50	ug/L	02/20/01
Methylene Chloride	2.0	0.50	ug/L	02/20/01
trans-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
MTBE	BDL	0.50	ug/L	02/20/01
1,1-Dichloroethane	BDL	0.50	ug/L	02/20/01
2 -Butanone	BDL	5.0	ug/L	02/20/01
cis-1,2-Dichloroethene	BDL	0.50	ug/L	02/20/01
2,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Chloroform	BDL	0.50	ug/L	02/20/01
Bromochloromethane	BDL	0.50	ug/L	02/20/01
1,1,1-Trichloroethane	BDL	0.50	ug/L	02/20/01
1,1-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,2-Dichloroethane	BDL	0.50	ug/L	02/20/01
Carbon Tetrachloride	BDL	0.50	ug/L	02/20/01
Benzene	BDL	0.50	ug/L	02/20/01
Trichloroethene	BDL	0.50	ug/L	02/20/01
1,2-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromomethane	BDL	0.50	ug/L	02/20/01
Bromodichloromethane	BDL	0.50	ug/L	02/20/01
4-Methyl-2-Pentanone	BDL	5.0	ug/L	02/20/01
cis-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
Toluene	BDL	0.50	ug/L	02/20/01
trans-1,3-Dichloropropene	BDL	0.50	ug/L	02/20/01
1,1,2-Trichloroethane	BDL	0.50	ug/L	02/20/01
2-Hexanone	BDL	5.0	ug/L	02/20/01
1,3-Dichloropropane	BDL	0.50	ug/L	02/20/01
Dibromochloromethane	BDL	0.50	ug/L	02/20/01
Tetrachloroethylene	BDL	0.50	ug/L	02/20/01
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Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/09/01 Sample Description: Field Blank EAS Sample Number: 01020133-12

LIMS ID Number: AC01667
Date Sample Received: 02/08/01
Client Project Number: MAC0036.CH

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dibromoethane	BDL	0.50	ug/L	02/20/01
Chlorobenzene	BDL	0.50	ug/L	02/20/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Ethylbenzene	BDL	0.50	ug/L	02/20/01
m/p-Xylene	BDL	0.50	ug/L	02/20/01
Styrene	BDL	0.50	ug/L	02/20/01
0-Xylene	BDL	0.50	ug/L	02/20/01
Bromoform	BDL	0.50	ug/L	02/20/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/20/01
Isopropylbenzene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/20/01
Bromobenzene	BDL	0.50	ug/L	02/20/01
n-Propylbenzene	BDL	0.50	ug/L	02/20/01
2-Chlorotoluene	BDL	0.50	ug/L	02/20/01
4-Chlorotoluene	BDL	0.50	ug/L	02/20/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
tert-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/20/01
sec-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/20/01
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/20/01
n-Butylbenzene	BDL	0.50	ug/L	02/20/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/20/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/20/01
Napthalene	BDL	0.50	ug/L	02/20/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/20/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/20/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: Trip Blank EAS Sample Number: 01020133-15 LIMS ID Number: AC01824

Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

ParameterDataVolatile Organic Compounds, WaterBDLDichlorodifluoromethaneBDLChloromethaneBDLVinyl ChlorideBDLBromomethaneBDLChloroethaneBDLTrichlorofluoromethaneBDLAcetone201,1- DichloroetheneBDLMethylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL1,1-DichloropropeneBDL	0.50 0.50 0.50 0.50 0.50 0.50 5.0	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Date 02/16/01 02/16/01 02/16/01 02/16/01 02/16/01
DichlorodifluoromethaneBDLChloromethaneBDLVinyl ChlorideBDLBromomethaneBDLChloroethaneBDLTrichlorofluoromethaneBDLAcetone201,1- DichloroetheneBDLMethylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50 0.50 0.50 0.50 0.50	ug/L ug/L ug/L ug/L	02/16/01 02/16/01 02/16/01
DichlorodifluoromethaneBDLChloromethaneBDLVinyl ChlorideBDLBromomethaneBDLChloroethaneBDLTrichlorofluoromethaneBDLAcetone201,1- DichloroetheneBDLMethylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50 0.50 0.50 0.50 0.50	ug/L ug/L ug/L ug/L	02/16/01 02/16/01 02/16/01
Vinyl ChlorideBDLBromomethaneBDLChloroethaneBDLTrichlorofluoromethaneBDLAcetone201,1- DichloroetheneBDLMethylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50 0.50 0.50 0.50	ug/L ug/L ug/L ug/L	02/16/01 02/16/01
Bromomethane BDL Chloroethane BDL Trichlorofluoromethane BDL Acetone 20 1,1- Dichloroethene BDL Methylene Chloride 1.2 trans-1,2-Dichloroethene BDL MTBE 7.5 1,1-Dichloroethane BDL 2 -Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50 0.50 0.50	ug/L ug/L ug/L	02/16/01 02/16/01
Bromomethane BDL Chloroethane BDL Trichlorofluoromethane BDL Acetone 20 1,1- Dichloroethene BDL Methylene Chloride 1.2 trans-1,2-Dichloroethene BDL MTBE 7.5 1,1-Dichloroethane BDL 2 -Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50 0.50	ug/L ug/L	
Trichlorofluoromethane BDL Acetone 20 1,1- Dichloroethene BDL Methylene Chloride 1.2 trans-1,2-Dichloroethene BDL MTBE 7.5 1,1-Dichloroethane BDL 2 -Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
Acetone 20 1,1- Dichloroethene BDL Methylene Chloride 1.2 trans-1,2-Dichloroethene BDL MTBE 7.5 1,1-Dichloroethane BDL 2 -Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL		-	
1,1- DichloroetheneBDLMethylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	5.0	_	02/16/01
Methylene Chloride1.2trans-1,2-DichloroetheneBDLMTBE7.51,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL		ug/L	02/16/01
trans-1,2-Dichloroethene BDL MTBE 7.5 1,1-Dichloroethane BDL 2 -Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
MTBE 7.5 1,1-Dichloroethane BDL 2-Butanone 7.0 cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
1,1-DichloroethaneBDL2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50	ug/L	02/16/01
2 -Butanone7.0cis-1,2-DichloroetheneBDL2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50	ug/L	02/16/01
cis-1,2-Dichloroethene BDL 2,2-Dichloropropane BDL Chloroform BDL Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
2,2-DichloropropaneBDLChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	5.0	ug/L	02/16/01
ChloroformBDLBromochloromethaneBDL1,1,1-TrichloroethaneBDL	0.50	ug/L	02/16/01
Bromochloromethane BDL 1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
1,1,1-Trichloroethane BDL	0.50	ug/L	02/16/01
• •	0.50	ug/L	02/16/01
1 1 Dichloropropopo	0.50	ug/L	02/16/01
1,1-Dictioroproperte DDL	0.50	ug/L	02/16/01
1,2-Dichloroethane BDL	0.50	ug/L	02/16/01
Carbon Tetrachloride BDL	0.50	ug/L	02/16/01
Benzene BDL	0.50	ug/L	02/16/01
Trichloroethene BDL	0.50	ug/L	02/16/01
1,2-Dichloropropane BDL	0.50	ug/L	02/16/01
Dibromomethane BDL	0.50	ug/L	02/16/01
Bromodichloromethane BDL	0.50	ug/L	02/16/01
4-Methyl-2-Pentanone BDL	5.0	ug/L	02/16/01
cis-1,3-Dichloropropene BDL	0.50	ug/L	02/16/01
Toluene BDL	0.50	ug/L	02/16/01
trans-1,3-Dichloropropene BDL	0.50	ug/L	02/16/01
1,1,2-Trichloroethane BDL	0.50	ug/L	02/16/01
2-Hexanone BDL	5.0	· ug/L	02/16/01
1,3-Dichloropropane BDL	0.50	ug/L	02/16/01
Dibromochloromethane BDL	0.50	ug/L	02/16/01
Tetrachloroethylene BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: Trip Blank EAS Sample Number: 01020133-15

LIMS ID Number: AC01824 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

		Detection		Analysis
Parameter	Data	Limit	Units	Date
1,2-Dibromoethane	BDL	0.50	ug/L	02/16/01
Chlorobenzene	BDL	0.50	ug/L	02/16/01
1,1,1,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Ethylbenzene	BDL	0.50	ug/L	02/16/01
m/p-Xylene	BDL	0.50	ug/L	02/16/01
Styrene	BDL	0.50	ug/L	02/16/01
0-Xylene	BDL	0.50	ug/L	02/16/01
Bromoform	BDL	0.50	ug/L	02/16/01
1,1,2,2-Tetrachloroethane	BDL	0.50	ug/L	02/16/01
Isopropylbenzene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichloropropane	BDL	0.50	ug/L	02/16/01
Bromobenzene	BDL	0.50	ug/L	02/16/01
n-Propylbenzene	BDL	0.50	ug/L	02/16/01
2-Chlorotoluene	BDL	0.50	ug/L	02/16/01
4-Chlorotoluene	BDL	0.50	ug/L	02/16/01
1,3,5-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
tert-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2,4-Trimethylbenzene	BDL	0.50	ug/L	02/16/01
sec-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,3-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
1,4-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
p-Isopropyltoluene	BDL	0.50	ug/L	02/16/01
1,2-Dichlorobenzene	BDL	0.50	ug/L	02/16/01
n-Butylbenzene	BDL	0.50	ug/L	02/16/01
1,2-Dibromo-3-Chloropropane	BDL	0.50	ug/L	02/16/01
1,2,4-Trichlorobenzene	BDL	0.50	ug/L	02/16/01
Napthalene	BDL	0.50	ug/L	02/16/01
Hexachlorobutadiene	BDL	0.50	ug/L	02/16/01
1,2,3-Trichlorobenzene	BDL	0.50	ug/L	02/16/01

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01

Sample Description: GZ-9

EAS Sample Number: 01020318-01

LIMS ID Number: AC02245 Date Sample Received: 02/23/01 Client Project Number: MAC0036.CA

		Detection		Analysis	
Parameter	Data	Limit	Units	Date	
PCB Extraction, Oil	Complete	\mathbf{d}		02/26/01	
PCBs, Oil					
Arochlor 1016	BDL	20000	ug/kg	03/01/01	
Arochlor 1221	BDL	40000	ug/kg	03/01/01	
Arochlor 1232	BDL	20000	ug/kg	03/01/01	
Arochlor 1242	BDL	20000	ug/kg	03/01/01	
Arochlor 1248	\mathtt{BDL}	20000	ug/kg	03/01/01	
Arochlor 1254	BDL	20000	ug/kg	03/01/01	
Arochlor 1260	\mathtt{BDL}	20000	ug/kg	03/01/01	

Comments:

Sample matrix interferent caused the elevated detection limit.

Sample clean-up was not successful in removing interferent.

Location Collected: MacDermid, Waterbury, CT

Date Sample Collected: 02/12/01 Sample Description: GZ-9

EAS Sample Number: 01020133-17

LIMS ID Number: AC01826 Date Sample Received: 02/12/01 Client Project Number: MAC0036.CA

		Detection		Analysis
Parameter	Data	Limit	Units	Date
TPH - DRO	90000	2000	mg/kg	02/15/01
TPH - GRO	BDL	2000	mg/kg	02/15/01
TPH - HRO	990000	2000	mg/kg	02/15/01

Date: March 16, 2001

Rev. No. 0

APPENDIX G FEBRUARY 2001 WELL RECEPTOR SURVEY

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HRP

Associates, Inc.

WELL RECEPTOR SURVEY

MacDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CONNECTICUT

HRP #MAC0036.CA

February 2001

Prepared by:

Matthew T. Bruckner Project Geologist

Richard D. McFee, P.E. Associate Vice President Engineering Services

Submitted to:

Mr. Greg Strong MacDermid, Inc. 245 Freight Street Waterbury, CT 06702 Submitted by:

HRP Associates, Inc. Engineering & Geology 167 New Britain Avenue Plainville, CT 06062

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Associates, Inc.

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WELL RECEPTOR SURVEY

MacDERMID, INC. 526 HUNTINGDON AVENUE WATERBURY, CONNECTICUT

1.0 INTRODUCTION

HRP Associates, Inc. (HRP) has conducted a survey of potential receptors in the anticipated down-gradient area or side-gradient area of the above referenced site. The focus of this investigation was on potential public and private water supply sources within 1,400 feet to the south (Steele Brook and Naugatuck River junction), 1,000 feet to the northeast (including several residential properties to the north) (Route 8), 700 feet to the east (Connecticut River), and 1,000 feet to the west (Steele Brook) of the subject site.

2.0 SITE SETTING

The subject parcel (MacDermid, Inc. property) is located at 526 Huntingdon Avenue, in Waterbury, Connecticut (see Figures 1 and 2 for site location). The site area consists of a mix of industrial/commercial and residential properties. The parcels of interest are depicted on Figure 2 as map references 1 through 7.

The approximate geographic coordinates of the site are 41° 34′ 31″ north latitude and 73° 03′ 26″ west longitude. The site is located at an elevation of approximately 300 feet above mean sea level according to published U.S.G.S. topographic mapping¹.

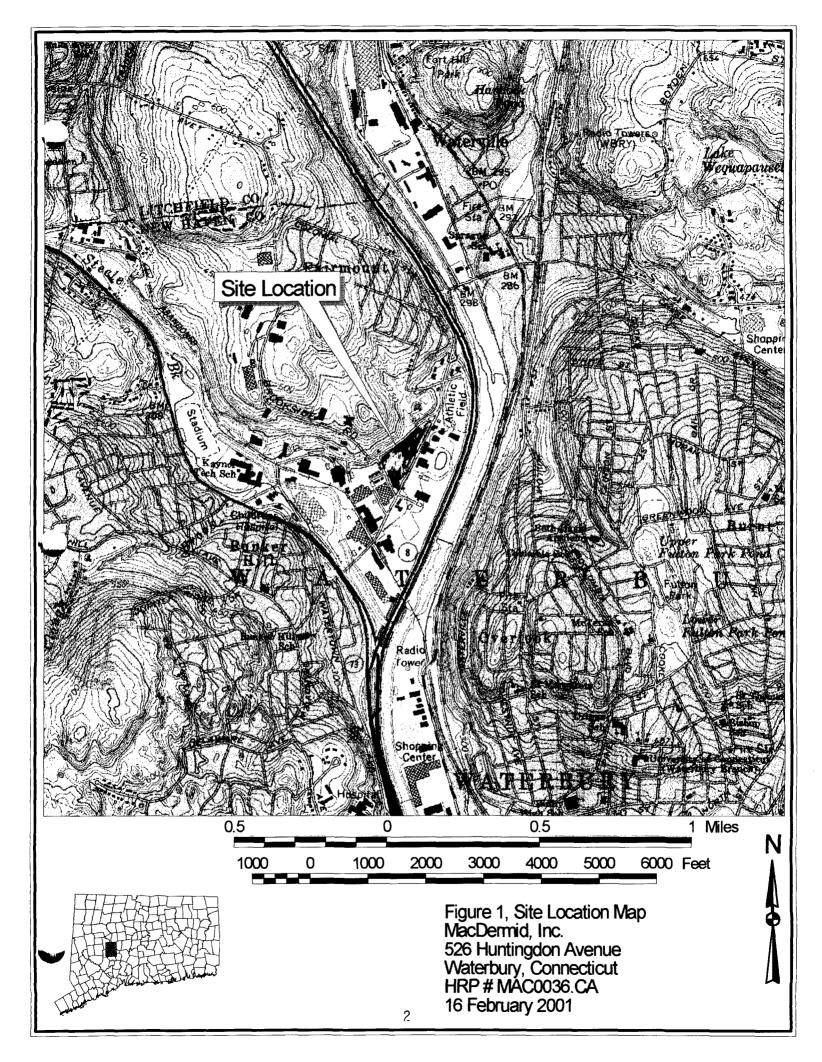
The ground water beneath the subject site and vicinity has been assigned a ground water quality classification of "GB" by the CT DEP, which denotes that ground water may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts.². Steele Brook, located approximately 0.17 mile southwest of the subject site, has been assigned a surface water classification of "B" indicating it is known or presumed to meet Water Quality Criteria which support designated uses, which may include recreational use; fish and wildlife habitat; agricultural and industrial supply and other legitimate uses including navigation. The Naugatuck River, located 0.2 mile east of the site, has been assigned a surface water classification of "C/B", indicating that, due to point or nonpoint sources of pollution, certain Water Quality Criteria or one or more designated uses assigned to Class B waters are not currently met. The water quality goal is achievement of Class B Criteria and attainment of Class B designated uses.

Based on previous subsurface investigations conducted at the subject site, which have included the installation of overburden ground water monitoring wells, ground water in the shallow overburden aquifer beneath the subject site flows to the south-southeast.

HRP

¹ United States Geological Survey. 1968. Photorevised 1984. Waterbury Quadrangle, 7.5 Minute Series.

² Connecticut Department of Environmental Protection, Water Management Bureau. 1993. Adopted Water Quality Classifications for the Connecticut River and South Central Coastal Basins.



3.0 IDENTIFICATION OF POTENTIAL RECEPTORS

The following sources of data and investigation methodologies for the identification of possible industrial water supply wells/monitor wells have been employed by HRP during this receptor survey. Table 1 summarizes the findings of this survey and indicates the data sources which provided documentation for the resulting confirmation of water supply (private well or public water). These sources are keyed to Table 1 by the circled numbers (①,②, etc). Table 2 lists all the properties within the selected area by street address and Waterbury Assessor's Department map, block, and lot numbers. Property owners' names are listed, as well as the reported confirmation status (from the Waterbury Water Company) of the public water supply connection to the site.

Data Sources:

- ① Connecticut Department of Environmental Protection (CT DEP) Public Water Supply Atlas
- 2 Published hydrologic data
- ③ Windshield/walking survey of the site vicinity (visual evidence of well, fire hydrants, water gate valves, etc.)
- (4) Water supply well completion reports located at the U.S.G.S. Water Resource Division
- (5) Water supply well completion reports located at the Waterbury Health Department
- © Queries of the Waterbury Water Company
- ⑦ City of Waterbury Tax Assessor's Field Card
- ® Queries of the Waterbury Engineering Department
- Connecticut Department of Environmental Protection (CT DEP) P-5 files

	en in de nemero e egyptotagas piñ.	TABLE 1 SURVEY FINDINGS		
HRP Figure 2 Designation	Map/Block/Lot#	Street Address	Confirmed Industrial Supply or Monitor Well	Confirmed Public Water Supply
1	143/863/2	327 Huntingdon Ave.	Yes ^{1,3}	Yes ²
		(IME Associates, LLC)	4 7	36
2	143/783/1	346 Huntingdon Ave.	Yes ^{1,3}	Yes ²
		(MP&P)	5 ⑦	36
3	143/864/18	526 Huntingdon Ave.	Yes ^{1,3}	Yes ²
	_	(MacDermid, Inc.)	4 7	36
4	143/864/18	420 Huntingdon Ave.	Yes ^{1,3}	Yes ² .
		(currently MacDermid, Inc.)	47	36
5	160/783/7	172 E. Aurora Street	Yes ^{1,3}	Yes ^{2,4}
		(U.S. Prolam/Ceilcote)	4 7	369
6	160/707/2	237 E. Aurora Street	Yes ^{1,3,4}	Yes ^{2,4}
		(LEA Manufacturing)	4979	369
7	160/783/1	E. Aurora Street	Yes ^{1,3,4}	Yes ^{2,4}
		(Waterbury Rolling Mills)	45 7	369

^{1 =} Well Completion reports identified at the U.S.G.S. or Waterbury Health Department have been included in Appendix A.

² = The Waterbury Water Company records indicate connection to a publicly available water supply (Appendix B).

³ = The Waterbury Tax Assessor's Field Cards have been included in Appendix C.

⁴ = The Connecticut Department of Environmental Protection (CT DEP) Bureau of Water Management P-5 Files are included in Appendix D.

TABLE 2 PUBLIC WATER SUPPLY DATA

Map#	Block	Lot#	Street Address	Owner Name	Connected to Public Water
128	864	3	526 Huntingdon Avenue	MacDermid, Inc.	Yes
129	865	7	000 E. Aurora Street	MacDermid, Inc.	Yes
129	707	8	Huntingdon Avenue	City of Waterbury (Recreation Field)	Yes
129	707	10	7 East Aurora Street	D'Angelo, Anthony P. & Concetta K.	Yes
129	707	12	11 E. Aurora Street	Farr, Leon J. Inc.	Yes
129	707	13	48 Jarrett Avenue	Union Glen Associates, Inc.	Yes
129	707	15	21 E. Aurora Street	City of Waterbury (Water Department)	Yes
129	865	3	2 E. Aurora Street	Fazo, Sali	Yes
129	865	5	000 E. Aurora Street	Fazo, Sali	Yes
129	865	6	24 E. Aurora Street	Tuttle, Pauline T. & Hallie A.	Yes
129	865	4	562 Huntingdon Avenue	Fazo, Sali	Yes
143	707	19	111 E. Aurora Street	Boas, Andrew M. & Cecelia A. (Bernier as Trustees)	Yes
143	707	20	123 E. Aurora Street	Sullivan, James S. Cable Co. Inc.	Yes
143	707	191	117 E. Aurora Street	B & V Realty LLC	Yes
143	707	192	75 E. Aurora Street	Boas, Andrew M. & Cecelia A. (Bernier as Trustees)	Yes
143	777	5	447 Huntingdon Avenue	Filippone, Mary J.	Yes
143	863	2	327 Huntingdon Avenue	IME Associates, LLC	Yes
143	863	3	345 Huntingdon Avenue		
143	863	4	407 Huntingdon Avenue	Salvatore, Gervase and Carmela	Yes
143	864	18	000 E. Aurora Street	MacDermid, Inc.	Yes
143	783	1	346 Huntingdon Avenue	Mirror, Polishing and Plating (MP&P)	Yes
143	783	7	Huntingdon Avenue	Halperin Real Estate, LLC	Yes
143	783	8	Huntingdon Avenue	Halperin Real Estate, LLC	Yes
143	783	9	4 Huntingdon Place	Cronin, Dennis C. & Linda L.	Yes
143	783	10	8 Huntingdon Place	Weymer, William H. & Sandra M.	Yes
143	783	11	14 Huntingdon Place	Melendez, Wilfredo	Yes
143	783	12	18 Huntingdon Place	Hardt, William B.	Yes
143	783	13	22 Huntingdon Place	Phillips, Joan C.	Yes
143	783	14	17 Huntingdon Place	Grimsley, Edna P.	Yes
143	783	15	11 Huntingdon Place	Zuta, Zinije	Yes
143	783	16	7 Huntingdon Place	Jacques, David & Lori Ann	Yes
143	783	17	1 Huntingdon Place	Brousseau, George D.	Yes
143	783	21	150 E. Aurora Street	Stein, Harold	Yes
143	783	111	348 Huntingdon Avenue	Halperin Real Estate, LLC	Yes
143	783	211	172 E. Aurora Street	Halperin Real Estate, LLC	Yes
144	707	1	37 E. Aurora Street	Ryder Truck Rental Inc.	Yes
144	707	2	51 E. Aurora Street	Boas, Andrew M. & Cecelia A. (Bernier as Trustees)	Yes
160	707	2	237 E. Aurora Street	OLIG LTD.	Yes

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	TABL	.E 2	
PUBLIC	WATER	SUPPLY	DATA

Map# Block Lot#		Map # Block Lot # Street Ad		Owner Name	Connected to Public Water
160	707	3	225 E. Aurora Street	Arev I Limited Partnership	Yes
160	707	4	181 E. Aurora Street	Arev I Limited Partnership	Yes
160	707	6	137 E. Aurora Street	137 E. Aurora LLC	Yes
160	707	61	000 E. Aurora Street	Stein, Harold (Trustee)	Yes
160	783	1	240 E. Aurora Street	Waterbury Rolling Mills, Inc.	Yes
160	783	. 7	172 E. Aurora Street	Etherington, Geoffrey II	Yes
161	707	1	173 E. Aurora Street	VBL Realty LLC	Yes

Descriptions of the type(s) of wells identified in the well completion reports for the above-tabled properties are as follows:

- 327 Huntingdon Ave. Installation of two monitoring wells, dated 11/10/98;
- 346 Huntingdon Ave. Installation of a ground water remediation well, dated 4/21/89;
- 526 Huntingdon Ave. Location of six (6) monitoring wells, dated 1/11/95;
- 420 Huntingdon Ave. Location of one (1) water supply well, dated 1/10/65;
- 172 E. Aurora St. Installation of two (2) monitoring wells, dated 10/1/98;
- 237 E. Aurora St. Installation of one (1) industrial water supply well, dated 11/1/67;
- 000 E. Aurora St. Identification of two (2) industrial water supply test wells, dated 8/1/78 and 3/31/79.

The operational status of these industrial water supply wells is currently unknown.

According to the 1974 State of Connecticut Water Resources Bulletin No. 19, Hydrogeologic Data for Housatonic River Basin, there are five water supply wells located within the designated search radius (Figure 2).

- Wells #(12,12A), located at 526 Huntingdon Ave. (Formerly Waterbury Steel Ball Co.), were completed in 1925 and 1947, respectively. Well #12 is listed as currently unused. Well # 12A is listed as a well used to withdraw water for air conditioning.
- Wells #(341, 341AB), located at 237 E. Aurora St. (LEA Manufacturing), were completed in 1957, 1966, and 1967, respectively. Well #341 is listed as currently unused. Wells #341A and B are listed as wells used to withdraw water for industrial purposes.
- Well #(343), located at E. Aurora St. (Formerly Brock-Hall Dairy Co.), was completed as a well used to withdraw water in 1945 for air conditioning.

The operational status of these wells is currently unknown.

Representatives of the City of Waterbury Engineering Department reported that public water supply lines are installed and available to all occupants in the site vicinity.

Multiple occupants were identified during the January 30, 2001 windshield/walking survey on several parcels located on the south side of E. Aurora Street. Several of these businesses were not listed on the Waterbury Water Company's lists as having public water. These properties map/lot/block numbers (143/707/19, 143/707/20, 143/707/191, 143/707/192, 160/707/6, 160/707/61, 161/707/1) were identified and cross-checked against the Tax Assessors Maps and Field Cards. According to the Field Cards, all map/block/lot parcels are serviced by public water (Appendix C).

4.0 CONCLUSIONS

Five water supply wells were identified in the 1974 State of Connecticut Water Resource Bulletin No. 19, Hydrogeologic Data for Housatonic River Basin. The operational status of these wells is currently unknown. If confirmation of the status of the identified wells is necessary, then an inquiry directed towards the current occupants may be appropriate.

Ten ground water monitoring wells and one ground water remediation well have been identified within the designated search radius surrounding the subject site. Six of these monitoring wells are located on the subject property. Four industrial water supply wells (status unknown) have been identified within the designated search radius. A former occupant of a portion of the current subject site (Raferty Brown Steel Co.) utilized a supply well. The operational status of these industrial water supply wells and monitoring wells is currently unknown. If confirmation of the status of the identified wells is necessary, then an inquiry directed towards the current occupants may be appropriate.

Several occupants along the south side of E. Aurora Street are not identified on the Waterbury Water Company list, but are recorded as being on public water per the Waterbury Tax Assessor's Field Cards. If confirmation of the status of the occupants' public water status is necessary, then an inquiry directed towards the current occupants may be appropriate.

The Naugatuck River and associated wetlands, located approximately 1,000 feet east of the subject site in a hydrogeologic cross to down-gradient position, is considered a potential receptor of any ground water contamination potentially originating from the site. The Naugatuck River has been assigned a water quality classification of "C/B", indicating that it is presumed to be significantly degraded and unsuitable as a potential drinking water supply.

US EPA New England RCRA Document Management System Image Target Sheet

	100825
Facility Name: <u>MACD</u>	ERMID INC
Facility ID#: <u>CTD001</u>	164599
Phase Classification: <u>F</u>	R-1B
Purpose of Target Shee	t:
[X] Oversized (in Site F	ile) [] Oversized (in Map Drawer)
[] Page(s) Missing (Please Specify Below)
[] Privileged	Other (Provide Purpose Below)
FIGURE 2: RECEPTO	d Material, if applicable: R SURVEY BASE MAP otograph [] Other (Specify Below)

^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

APPG

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APPENDIX A

Well Completion Reports

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HRP

Associates, Inc.

STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION REAL ESTATE & PROFESSIONAL TRADES DIVISION WELL DRILLING COMPLETION REPORT

165 Capitol Avenue, Hartford, Connecticut 06106

ER	NAME	-		ADDRESS		<u> </u>
				<u> </u>	·	
LOCATION OF WELL	(No & Sire 327 Huntir		(Town) Wate	rbury	mber)	
PROPOSED USE OF WELL	DOMESTI PUBLIC SUPPLY	ESTAI	ESS BLISHMENT E STRIAL	AIR CONDITIONING	TEST WELL X OTHER Moni (Specify)	toring Wells
DRILLING * EQUIPMENT	ROTARY		RESSED ERCUSSION	CABLE PERCUSSION	OTHER (Specify)	
* CASING * DETAILS	LENGTH (feet) D	IAMETER (inches)	VEIGHT PER FOOT	THREADED	WELDED DRIVE	SHOE WAS CASING GROUTED NO DYES NO
* YIELD TEST	BAILEO	PUMPED	COMPRESSED AIR			YIELD (GPM)
* WATER LEVEL	MEASURE FROM LAND	SURFACE - STATIC (Spe	city feet) DURIN	G YIELD TEST (Isel)	Depth of C	ompleted Well in feet
* SCREEN	MAKE				·	LENGTH OPEN TO AQUIFER (1001)
DETAILS	SLOT SIZE	DIAMETER (inches)	IF GRAVEL PACKED	Diameter of well including gravel pack (inches)	GRAVEL SIZE (inches)	FROM (leel) TO (leel)
DEPTH FROM LAN	1	FORMATION DES	CRIPTION	Sketch exact k	ocation of well with distance	es, to at least two
	ed Soil Sampl			Huntingdon Avenue		<i>m</i> w−1
FEE		GALLONS PER M	STRATION NO	DATE OF REPO		
1 10-98	WCR- 1			11-11-98	··· \	WELL DRILLER ISON JUST

DISTRIBUTION: DEPARTMENT OF CONSUMER PROTECTION, DEPARTMENT OF ENVIRONMENTAL PROTECTION, PROPERTY OWNER, WELL DRILLING CONTRACTOR & LOCAL DIRECTOR OF HEALTH.

Soil Sampling Log

Core Barrel

	Son Samping Log	
Date Started 11-10-98	^	Sheet 1 (
Date Finish 11-10-98	GLACIER DRILLING	Proj. No
Weight Of Hammer 140 300	GLACIER & DRILLING	Location 327 Huntington Ave.
Hammer Fall 30' 24"	78 Golden St. Meriden, CT 06450	Line & STA Waterbury, CT
Ground Water Observations	Phone/Fax 203-235-1944	Offset
Date Time Depth 11-10-98 0 hr. ~ 6.0'	Environmental Remediation, Inc.	Ground Elevation
	87 Church St	Hole No. MW -1
Sampler O.D. 2" I.D. 1 7/8"	East Hartford, CT 06108	Casing Sampler
		Type HSA SS

Type Of Rig

Truck Mounted Rig: D-50

pt. ow	Sample No.	Type Of		lows Pe On Samp		Density Or Consist	Profile Change	Field Identification Of Soils		Sampl	le
ace	Depths Elev. Ft.	Sample			12-18	Moisture	Depth Elev.	Remarks	No.	Pen	
	0-2	SS	12	27	30	Dense		Medium - fine sand, medium - fine gravel, trace of silt, rock	1	24"	_
		-	ļ		34	Dry		fragments.	<u> </u>		_
		-	-	-	\vdash				ļ : -	+	_
	4-6	SS	2	22	34	Dense		Same as above.	12	24"	
			<u> </u>	ļ	37	Moist					_
		-	<u> </u>				8.0'	B.O.B. Refusal. Set a 2" PVC well at 8.0', using:		┼	_
		-						l Threaded Plug		1	_
				<u> </u>						1	-
								5' Screen, .010 slot			-
			1					2.5' Riser	_	+	_
								2 1/2 Sand, 50 lb bags		-	-
•		<u> </u>						1/2 Bentonite Chips			_
								l Expandable Gripper		-	-
								1 Lock		+	_
											_
			ļ <u>.</u>					1 Road Box, 8"		 	_
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	-			<u> </u>						+	-
	Driller: Ter	ry Bell		L	<u></u>		Proportions use	d trace= 0.10%, little = 10.20%, some = 20.35%, and = 35.50%			-

Sample Type: C = Cored W = Washed SS = Split Spoon UP = Undisturbed Piston

Cohesionics Density 0-10 Loose 10-30 Med. Comp. 30-50 Dense

Date Start	ted 11-10-9	8							A	Shee	et <u>1</u>	Of	1					
Date Finis	sh 11-10-9	8								Proj.	No							
Weight O	f Hammer	\times	140		300			GLA	CIER DRILLING	Location 327 Hunti	ngton Ave.			_				
'Hamme		30'		24"		_			78 Golden St.	Line & STA Waterb	urv. CT							
<u></u>	ound Water (1	tions	-I					Meriden, CT 06450 one/Fax 203-235-1944									
	Time	J03C1 VA		L						Offset								
Date 11-10-98	0 hr.		Dept	6.0'				Environn	mental Remediation, Inc.	Ground Elevation			·					
									87 Church St	Hole No.	MW -2							
Sampler C	D.D. 2"	I.D.		1 7/	′8 *			East	Hartford, CT 06108	Casing Type HSA	Sampler SS	ore arrel						
Type Of R	lig Tn	uck Mou	inted l	Rig: E	D-50					Size I.D. 4 1/4"	1 7/8"							
	T	Ι		lows Pe			<u> </u>							T				
Dept. Below Surface	Sample No. Depths	Of Sample	From	On Sam	pie To		usity Or usist	Profile Change Depth	Field Identification			Sample	e T	-				
	Elev. Ft.	SS	0-6	6-12 20	12-18	Moi	nse	Elev.	Medium - fine brown sand, medium - f		No.	Pen 24"	Rec 12"	1				
		- 55	···	20	15		1150		trace of silt.	ine graver, rock fragments,	<u> </u>		ļ <u></u>	1				
			+							, , ,		T	-	-				
	4-6	SS	15	5	5		Comp. 'et		Medium - fine brown sand, fine - medi fine sand, silt and fuel odor.	um gravel, rock fragments,		24"	14	1				
										•								
	6-8	SS	4	4	9	Med. (Comp.		Coarse - fine dark brown sand, medium	n - fine gravel, trace of silt.	3	24"	8"	1				
												 		-				
	9-11	SS	21	15	5	Med.	Comp.		Same as above.		4	24"	10"	1				
													1	1				
	14-16	SS	2	15	6	Med.	Comp.		Fine brown, medium - fine gravel, silt,	rock fragments.	5	24"	7"	1				
			<u> </u>		J			16.01	DOD 28 DVC 11					1				
								15.0'	B.O.B., set a 2" PVC well using:			 						
								,	1 Threaded Plug			<u> </u>	<u> </u>	-				
									10' Screen, .010 slot			<u> </u>		}				
			-						5.5' Riser			 	-	-				
			ļ						1/2 Bentonite Chips			-]				
									l Expandable Gripper			-		}				
			ļ						l Lock	•	-	1		1				
									l Road Box, 8"			<u> </u>	 	1				
		————	<u> </u>							•		1		1				
			<u> </u>									‡		1				
				-								 	-	1				
												_	 	- 				
												<u> </u>		1				
												<u></u>	<u> </u>	1				
												-		-				
														1				
_														1				
	Driller: Ten	ry Bell	L	L					trace= 0.10%, little = 10.20%, some = 20.35%, and =			1		J				
	Assistant: Soils Engir	Oliver Priv neer: Ca	vott rrie Sha	rkey				C=C SS=S	e Type: Cohesionless Density ored W = Washed Split Spoon 10-30 Med. Comp. Undisrurbed Piston 30-50 Dense	Total Footage: Earth Boring 15 Rock Coring	o Ft. Ft.							

STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION WELL DRILLING PERMIT

138357

165 CAPITOL AVE., HARTFORD, CONNECTICUT 06106

LOCATION OF WELL	•	(Street)		(Los Number)	DATE	0 / 1006
W	ATERBURY	HUNTINGOON	AVE.	346	APRIL	21,1989
OWNER OF WELL INDIVIDUAL	BUILDER	OTHER (Specify)		· ·		
OWNER'S ADDRESS	POLISHING & PL	ATING INC. 34	6 HUNTINGO	N AVE. V	NATERBUR	4
PROPOSED	DOMESTIC	BUSINESS ESTABLISHMENT	FARM	TEST /	t 1	Est. No. of People being served.
USE OF WELL	PUBLIC SUPPLY	INDUSTRIAL	AIR CONDITIONING	OTHER Gro	undwater nediation	W.A.
	<u> </u>	SKETCH OF	WELL LOCATION			
		Il with respect to at least two roads,			hours (if present)	
	Location of lot to at least	two roads		ell location on lot and to	HORTH	
	, , ,	APPROX. 700 FT. PROX. 25 FT. WIELL	The state of the s	APPROX. 225 IIRROR POLISH PLATING.		Sheer Droot
The undersigned 25-131 of the 19	is aware that upon completion 69 Supplement to the General is not valid until all information i	of the well, a "Well Completion Statutes must be sent to the owner is filled in and it has been counter-statute." APPLICATION S ADDRESS R D S R	Report" containing constr r, the Board and the Wate igned by the Director of Hea CALAN WILL	uction details and infoir r Resources Commission	mation required uncon the form provided 14 225	der Section
APPROVED	REJECTED	BY (Town Health Officer	or Ageni)	7,	DATE	

CONSUMER PROTECTION PERMIT NUMBER WELL DRILLING BOARD STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION R-8 REV. 11-82 166024 WELL DRILLING PERMIT 165 CAPITOL AVE., HARTFORD, CONNECTICUT 06106 GZA GOOEnvironmental 27 Nack Rd ATION OF WELL (Town) (Nate-bu-) WNER OF WELL INDIVIDUAL BUILDER OTHER (Specify) NER'S ADDRESS Est. No. of PROPOSED DOMESTIC FARM ESTABLISHMENT People being USE OF served. OTHER PUBLIC WELL INDUSTRIAL CONDITIONING SUPPLY (Specify) SKETCH OF WELL LOCATION Locate well with respect to at least two roads, showing distance from intersection and front of lot Location of lot to at least two roads Well location on lot and to house (if present) 17 Pro- 10t poroximate number of feet from well to parest source of possible contamination: The undersigned is aware that upon completion of the well, a "Well-Completion Report" containing construction details and information required under Section 25-131 of the 1969 Supplement to the General Statutes must be sent to the owner, the Board and the Water Resources Commission on the form provided by the Soard. This permit is not valid until all information is filled in and it has been counter-signed by the Director of Health or his agent. REGISTRATION NO. 0054 NEJECTED-

WELL COMPLETION REPORT

STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION WELL DRILLING BOARD

165 CAPITOL AVE. HARTFORD, CONNECTICUT 06106

ın	

-												
	OWNER	NAME	mac 3	Dince		ľ	ADORE		6 Hunt	ing don A	re	
7	LOCATION OF WELL		5	(No. & Stree	ii cnting	1901	A	 مها	(Town)		(Lor	Number)
I	PROPOSED USE OF	□∝	DWESTIC	BUSINESS ESTABLISH	,	J		FARM		TEST WELL		
	MET		JBLIC JPPLY	industri.	AL			AIR CONDITIONII	NG		ai. torc	ell
	DEFLING EQUIPMENT		DTARY	COMPRES.	JSSION			CABLE PERCUSSION		OTHER (Specify)	1.S.A	
	CASING DETAILS	LENGTH	(f ee t)	DIAMETER (inches) WEIGHT	PER FOOT		THREADED	WELDED	DRIVE SHOE		moseal
	YIELD		NLED"	PUMPED		OMPRESSED			HOURS	·	YIELD IG M	;
enes.	WATER	MEASURE			pecify feet)	DURING	YIELD	TEST (feel)		Depth of Completed to in feet below Land so		·
7	SCREEN			V.C	·····							TO AQUIFER (feet)
¥ _	DETAILS	SLOT SIZ	10	DIAMETER (inches	· #-	GRAVEL CXED:		Diameter of w gravel pack (ii		CRAVEL SIZE (inches)	FROM (feet)	TO (feet
?	EPTH FROM LAND FEET TO FE			FORMATION DE	SCRIPTION			 		t location of well with nent landmarks	dislances, la a	least
~1 -	0'	30'	5#	6 with	bosi	Becs						
- Carrie	<u> </u>											
				· · · · · · · · · · · · · · · · · · ·								
"J. -												
I .												
a -				- · · · · · · · · · · · · · · · · · · ·								
-												
1												
,r 												
	H y	ield was te	ped at different	depths during dri	ling, list belo	w						
		FEET		GALLO	ONS PER MIN	UTE		*				
A	1		' <u>'</u>									
1	,		*									
			•		_ _							
Ų.	NATE WELL COMP	LETED	PERMIT NO.		GISTRATION N	ю. Т	DATE	OF REPORT	WELL DRIL	(ER (Signature)	ice-	•
•	111111	15	1 1/0/c	(24)	54		-/	20/75		20 T 1/4/	<u> </u>	

State of Connecticut WATER RESOURCES COMMISSION 223 State Office Building Hartford, Connecticut

WELL COMPLETION REPORT

This report must be completed and submitted to State Water Resources Commission no later than 30 days after completion of well.

DO NOT FILL IN

State Well No. 74

											2 3)
V ONER	_	_				_,			y, Conn.		
	-MrN	elson ,	P. Ha. •m•	rt, Raf	erty Br	own Stee	1 Comp	any, P.	City and Tow		
WELL DRILLER	Premo	o Dril		Inc.	Box 3		C	anton,	Conn.		
,		N;	eme			Street Address			City and Tow	'n	
PROPOSED	USE OR L	JSES (Che	eck):			Busin	A94				
		D	omestic	☐ Farm	☐ Irrigati			☐ Municip	pal 🗶 Indus	trial 📋 T	est Weil
CA	SING DET	TAILS		YIELD TE	ST	w	ATER LE	VEL	SCRE	EN DETAIL	_S
		· 	☐ Baile	I .		(measu	re from la	nd surface)			
Length:	_36	Feet	Or Dum	§	3/¤°45	_	150	Feet	Make:		
Diameter:	6	Inches	or TV Com	pressed Air	G.P.M	During Yie VI. Test:		Feet	Length	Ft.	Slot Size
Wind.			7			DRILL	ING EQUIP	MENT Other (Specify)	Diameter	1	
Kind:	Stee	1	Yield:] G.P.I	M Rotary			Diameter: Percussio	In.	
TOTAL DEP	TH OF W	ELL	400-F	EET				_			
					WE	LL LOG					
		Cina da		-6 60 mm - 4:			-4 -:14		land to the same		
Depth F Ground S		granite.	, etc. Inc packed, c	lude size of	gravel (dian	ed, such as: pe neter) and sand r example: 0 ft.	d (fine. m	edium, coar:	se), color of m	aterial, stru	icture
FT. to	° 16 ^{FT.}	Sa	nd &	Gravel							
16 FT. to	95 FT.	Gn	eiss_						· · · · · · · · · · · · · · · · · · ·		
95 FT. to	°130 ^{FT.}	Gr	ani te	(pink)	<u> </u>						
130 FT.to	°400FT.	Gr	an <u>i</u> te	(white	:)						
FT. to	o FT.	·									
FT. to	o FT.										
FT .to	o FT.						·-···				
FT. to	o FT.										
				If Yie) TEST DATA IN At Different Depths		ing, List Below			
,	FT.	G.P	.M.								
	FT.	G.P	.M.								
	FT.	G.F	P.M.								
	Fī.	G.P	.M.								
atter oil Was	s Complete	ed:	9/15/	65		Date o	of Report		10/61		
	Permit Numbe	#	107			Well Driller		6 4	(Signature)	1/2	
				i		<u> </u>	. 2	004	(Signature)		

Certificate No.

LOCATION OF WELL: TOWN OF WATERBURY

SKETCH SHOWING LOCATION OF PREMISES IN TOWN: (Show distance and direction from road intersection or other landmark.)

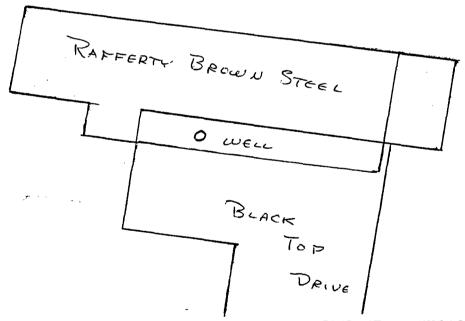


HUDINGTON AVE

RAFFERENT
STEEL

THOMASTON

DIAGRAM SHOWING LOCATION OF WELL ON PREMISES:



ROUTE DIRECTIONS FOR REACHING WELL SITE FROM NEAREST CITY OR VILLAGE CENTER:

Town of WATERBURY CONNECTICUT

Date

WELL DRILLER'S PERMIT

Fee \$4.00

Name of Property Owner:Mr...Nelson P. Hart of Public Act 187 of the 1963 Session of the Connecticut Legislature, for a well to be drilled on the property of: Resources Commission and do make application herewith for a Well Driller's Permit in accordance with the provisions hereby state that I (we) am (are) a well driller duly and currently registered with the State of Connecticut Water Address of Premises on which well is located: Address of Property Owner: Box 192, Waterbury, Connecticut Thomas E. Lovell of the firm of Premco Drilling Co. Inc. 420 Huntington Avenue, Waterbury (address) Box 302, Canton, Connecticut (Raferty Brown Steel Company)

The approximate location of the well will be as shown on the reverse side of this permit.

State Office Building, Hartford, Connecticut on the form entitled "Well Completion Report" which has been supplied The undersigned is aware that upon completion of this well the above data, together with a well log of information required under (c) and (d) of Public Act 187 of the 1963 Session must be sent to: Water Resources Commission, 223 to registered drillers. Thomas E. Lovell

Applicant

of Public Act 187 of the 1963 Session of the Connecticut Legislature this This permit is issued for a well located as shown to the above named well driller in accordance with the Provisions

Building Official

Scann

BUILDING INSPECTOR'S OFFICE

DATE <u>December 29, 1965</u>

WELL DRILLER'S PERMIT

I, Thomas E. Lovell , of the firm of Premco Drilling, Co., Inc.
(address) Box 302, Canton, Connecticut
hereby state that I (we) am (are) a well driller duly and currently registered with the State of Connecticut Water Resources Commission and do make application herewith for a Well Driller's Permit in accordance with the provisions of PUBLIC ACT 187 of the 1963 Session of the Connecticut Legislature, for a well to be drilled on the property of:
Mr. Nelson P. Hart NAME OF PROPERTY OWNER: Baferty Brown Steel Company
ADDRESS OF PROPERTY OWNER: Box 192, Waterbury, Connect icut 420 Huntington Avenue
ADDRESS OF PREMISES ON WHICH WELL IS LOCATED: Waterbury. Connecticut
The undersigned is aware that upon completion of this well the above data, together with a well log of information required under (c) and (d) of Public Act 187 of the 1963 Session must be sent to: Water Resources Commission, 223 State Office Building, Hartford, Connecticut on the form entitled "Well Completion Report" which has been supplied to registered drillers.

T. E. Lovell

This permit, Number 107, is issued for a well located as shown to the above named driller in accordance with the provisions of Public Act 187 of the 1963 Session of the Connecticut Legislature this 4th. day of January, 1966.

BUILDING OFFICIAL

cc: Town Health Director
Water Resources Commission

LOCATION OF WELL: TOWN OF Waterbury

SKETCH SHOWING LOCATION OF PREMISES IN TOWN:
(Show distance and direction from road intersection or other landmark.)

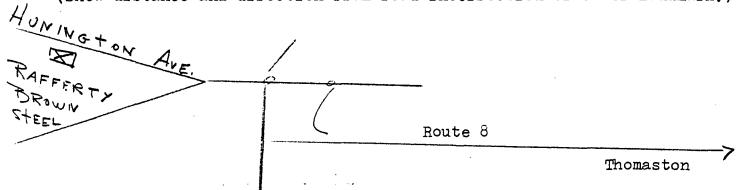
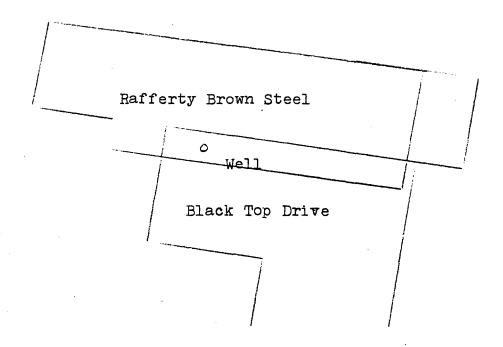


DIAGRAM SHOWING LOCATION OF WELL ON PREMISES:



ROUTE DIRECTIONS FOR REACHING WELL SITE FROM NEAREST CITY OR VILLAGE CENTER:

STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION REAL ESTATE & PROFESSIONAL TRADES DIVISION WELL DRILLING COMPLETION REPORT

165 Capitol Avenue, Hartford, Connecticut 06106

C' FR	NAME			ADDRESS			
V							•
LOCATION	(No. 4 St	real)	(Town)	(Lot Nur	nber)		
OF WELL	East Auror	St. (US Pro	lam) W	aterbury			
	DOMEST	TIC BUSIA		FARM	TEST		
PROPOSED USE OF WELL			BLISHMENT (_	WELL		•
032 07 11222	PUBLIC SUPPLY		STRIAL	AIR CONDITIONING	OTHER (Specify)		
DRILLING	ROTARY	COMP	RESSED	CABLE	OTHER		
EQUIPMENT		AIR PI	ERCUSSION L	PERCUSSION	(Specify)		
CASING	LENGTH (I++I)	DIAMETER (inches)	VEIGHT PER FOOT	T	DRIVE S	HOE WAS CA	SING GROUTED?
DETAILS				THREADED			s 🗆 no
YIELD TEST	BAILED	PUMPED	COMPRESSED AIR	HOURS		YIELD (GPM)	
	ا ب						
WATER LEVEL	MEASURE FROM LAN	O SURFACE - STATIC (Spe	city (set) DURIN	G YIELD TEST (Ieel)	Depth of C	ompleted Well in leet	
CEYEL	MUKE					LENGTH OPEN TO	· · · · · · · · · · · · · · · · · · ·
SCREEN	*****					LENGTH OPEN TO	AOUIFER (1991)
DETAILS	SLOT SIZE	DIMETER (inches)	IF GRAVEL	Diameter of well	GRAVEL SIZE (inches)	FROM (feet)	TO (feet)
			PACKED:	including gravel pack (inches)			
DEPTH FROM LAN	D TO SURFACE	FORMATION DES	CRIPTION		ocation of well with distance	s, to at least two	
FEET TO	FEET		1	· permanent lan	dmarks		
See attached	Soil Sampl	ing Log.			,		
			Ī				
					,		
							•
							
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}						•	
							
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	·				•	,	
				•			
ļ	1		1				
U violet wa	t tasted at different de	pths during drilling, list b			•		
FEE:		GALLONS PER A		•			
					•		
			1				
		······································					
		~_~_					* *
	j		•			,	
						, *	
			• 1	•	,		Λ_{i}
DA LL COMPLE			ISTRATION NO.	DATE OF REPO	ORT /	MELY DRILLER IS ON	4
98/	WCR-130	000	86	10/1/98	1 //	IL XX	Ί,

ISTRIBUTION: DEPARTMENT OF CONSUMER PROTECTION, DEPARTMENT OF ENVIRONMENTAL PROTECTION, ROPERTY OWNER, WELL DRILLING CONTRACTOR & LOCAL DIRECTOR OF HEALTH.

	Soil Sampling Log	
Date Started 9-24-98	^ .	Sheet 1 Of 2
Date Finish 9-24-98		Proj. No. ETH0015.RA
Weight Of Hammer 140 300	GLACIER FORILLING	Location US Prolam - East Aurora St.
Hammer Fall 30' 24"	78 Golden St. Meriden, CT 06450	Line & STA Waterbury, CT
Ground Water Observations	Phone/Fax 203-235-1944	· Offset
Date Time Depth	HRP ASSOCIATES, INC.	Ground Elevation
	167 New Britain Ave.	Hole No. VEW - 1
Sampler O.D. 1 5/8" I.D. 1 3/8"	Plainville, CT 06062	Core Casing Sampler Barrel
Type Of Rig Truck Mounted Rig: CME-75		Type HW SS
		Size I.D. 6 1/4" 1 3/8"

i. W	Sample No.	Type	0	lows Per On Samp	pic	Density Or	Profile Change	Field Identification Of Soils		Sampl	lc
ce	Depths Elev. Ft.	Depths Sample From To Consist Depth Remarks	No.	Pen	_						
								Auger to 5.0'.			_
											_
									<u>_:</u>		
		<u> </u>	ļ	<u> </u>						1	_
	5-7	SS	3	2	1 1	Loose		Brown coarse - medium sand, trace fine - medium cobble.	1	2.0'	_
	<u> </u>	 	 	<u> </u>	3	Dry		PID B.G. 1.9 ppm;	ļ	 	_
		\	├	 			1	25.2 ppm ·	<u> </u>		_
			<u> </u>	 					ļ <u>.</u>	100	
	7-9	SS	2	7	1	Loose		Brown very fine - fine sand, little dark brown coarse - medium sand,	2	2.0'	
	——		-	 	4	Dry		trace fine - medium cobble, little coarse cobble. PID B.G. 2.1 ppm		 	-
			 -	-				73.0 ppm		+	-
	9-11	SS	62/2"	 	1	Dense		Fractured rock, Ittle dark brown coarse - medium sand, trace fine -		2.0'	ĩ
	9-11	33	02/2	┼		Dry		medium cobble.	-	2.0	
		 	 -	 	 	Diy		PID B.G. 2.8 ppm	-	+	
		 		 				23.2 ppm		+	
	11-13	SS	5	+8-	17	Dense		Tan medium - coarse sand and coarse cobble, little fine - medium	4	2.0	
	11.15		 	+	15	Dry		cobble, trace fractured rock, trace dark brown coarse - medium sand.		-	٠
,			1	1	1	~-,		PID B.G. 2.0 ppm		 	٠
			 	 				28 ppm		1	•
	13-15	SS	55	22	23	Dense	į	Fractured rock and tan medium - coarse sand, trace medium - fine	5	2.0'	
					30	Dry	ķ	cobble, trace brown fine - medium sand.			
						, and the second	ļ	PID B.G. 3.1 ppm			
						1		28.9 ppm			
	15-17	SS	20	23	50/3"	Dense		Fractured rock and tan medium - coarse sand, trace medium - fine	6	2.0'	
						Dry		cobble, trace brown fine - medium sand.	L		
			<u> </u>	ļ				PID B.G. 0.9 ppm	<u> </u>	 	
	12.10	- 00	<u> </u>	1	1.0			10.5 ppm Light brown very fine - fine sand, some fractured rock, little dark	17	2.0	í
	17-19	SS	6	12	10	Med. Comp.		prown coarse - medium sand, trace medium - fine cobble.	} -	12.0	٠
	ļ				14	Dry		PID B.G. 0.7 ppm		 	,
						}		9.2 ppm	}	 	•
	19-21	SS	4	8	9	Med. Comp.		Light brown very fine sand, trace coarse cobble.	8	2.0'	•
	17 21		 '	- <u>-</u> -	10	Dry		PID B.G. 1.0 ppm	 	1	
						,		11.8 ppm	-	1	
								••		1	
	21-23	SS	9	8	8	Med. Comp.		Same as above	9	2.0'	
					9	Dry		PID B.G. 0.9 ppm	L	<u> </u>	
	<u></u>						jı	19.9 ppm	<u> </u>		
	22.25	- 00		-			Ĺ	Callabarra and Caracal and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and	10	200	•
	23-25	SS	3	7	8	Med. Comp.		Light brown very fine sand and grey - brown very fine sand, trace	10	2.0'	-
	<u></u>		<u> </u>		11	Dry		medium cobble.	-	├	-
							l l	PID B.G. 0.9 ppm	-		-
	25 - 27	SS	4	7	10	Mod C		16.3 ppm Light brown very fine sand, little brown very fine sand.	11	2.0'	î
	23-21	- 33	. 4	'	12	Med. Comp.		PID B.G. 0.9 ppm	11	2.0	•
				 	12	Dry		9.1 ppm	-	 	
					\vdash		ľ	· · · · · · · · · · · · · · · · · · ·	-	 	
	27 - 29	SS	10	10	11	Med. Comp.	k	Same as above.	12	2.0	,
			1.0	1.0	12	Wet @ 28'		PID B.G. 0.7 ppm	<u> </u>	† 	
			 	 	H -			9.9 ppm	-	†	
			 				ſ	* *		1	•

Driller: Terry Bell
Assistant: Oliver Privott
Soils Engineer: KPH

Sample Type: C = Cored W = Washed SS = Split Spoon UP = Undisturbed Piston

Cohesionless Density 0-10 Loose 10-30 Med. Comp. 30-50 Dense

Total Footage: Earth Boring 29.0° Rock Coring

Ft. Ft.

<u>.</u>								Soil Sampling Log					
Date Sta	rtea 9-24-98							▲ .	She	et <u>:</u>	2	Of	2
Date Fin	uish 9- <u>24-</u> 98								Proj	. No1	ETHO	0015.1	RA
Weight	Of Hammer	\times ,	40		300		GLA	CIER DRILLING	Location US Prola	n - East	Aurc	ora St	
	ner Fall	30'		24"				78 Golden St.	Line & STA Water				
	round Water (·	ione					Meriden, CT 06450 none/Fax 203-235-1944	Eme at 5171 Water	, <u>U</u>			
		Josefvat							Offset				
Date	Time		Dept	h 				ASSOCIATES, INC.	Ground Elevation				
					_		161	7 New Britain Ave.	Hole No.	VE.	W - 1		
Sampler	O.D. 15/8	" I.D.		1 3/	/Q#		Pla	ainville, CT 06062	Casing	Sampl		Co	re rrel
									Type HW	Sample			
Type Of	Rig Iruc	k Mount	ted Kı	g: CN	AE-75				Size I.D. 6 1/4"	1 3/	/8*		
		T		ows Pe									
Dept. Below Surface	Sample No. Depths	Of Sample	From	Do Sam	ple To	Density Or Consist	Profile Change Depth	Field Identification Remarks	Of Soils	}	:	Sample	
	Elev. Ft.	- Sample	0-6	6-12	12-18	Moisture	Elev.	Set a 4" PVC well at 29.0', using:			No.	Pen	Rec
				-						1			
				-				1 Threaded Plug		Ę			
			ļ		-			25' Screen (29.0 - 4.0')		ŕ			
			-					3.5' Riser $(4.0$ ' = 0.5 ')	•	F			
								19 Sand, 50 lb bags (to 32")		ļ			
								l bag Bentonite Chips (to 20")		ļ			
								1 Expandable Gripper		ļ			
		-	-					1 Curb Box, 8"		}			
								3 Concrete Mix					
-				<u> </u>						ļ	=		
			<u> </u>	<u> </u>									
		-	 	 	-					Ĺ			
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Driller: Terry Bell
Assistant: Oliver Privott
Soils Engineer: KPH

Proportions used trace= 0.10%, little = 10.20%, some = 20.35%, and = 35.50% Sample Type: C = Cored W = Washed SS = Split Spoon UP = Undisturbed Piston

Cohesionless Density 0-10 Loose 10-30 Med. Comp. 30-50 Dense

Total Footage: Earth Boring 29.0 Rock Coring

Ft. Ft.

State of Connecticut WATER RESOURCES COMMISSION 223 State Office Building Hartford, Connecticut

WELL COMPLETION REPORT

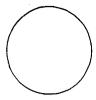
This report must be completed and submitted to State Water Resources Commission no later than 30 days after completion of well.

DO NOT FILL IN

Other No. WRC-Wb 29

		FACTURING C		7 Bast Auro	ra St.	Gity and Town	 _
VELL PRILLER THE	STEPHEN		COMPANY -	Box 67,		SEYMOUR,	
	Na	ime	ŧ	Street Address		City and Town	
OPOSED USE OR	USES (Che	ck): omestic 🔲 Farm	lrrigation	Business Establishme	nt 🔲 Municip	al 🏝 Industrial [∐ Test We
CASING DETAILS YIELD		EST	WATER	LEVEL	SCREEN DE	TAILS	
		☐ Bailed ·		(measure from land surface)			
ength: 34	Feet	or Pumped	24 Hours	Static: 13	611 Feet	Make: EVERDUI	<u> </u>
liameter: 8	Inches	or Compressed Air	G.P.M.	During Yield Test: 20 1		Length 10 F	Slo t. Siz
Cind: STEEL		Yield:	200 G.P.M	DRILLING EC	QUIPMENT Other (Specify)	Diameter: 8 1	.02
TAL DEPTH OF V	VELL	42_FEET		<u> </u>		<u> </u>	
			1.1.2000 ·	. 00			
				. LOG			
Depth From Ground Surface	granite	, etc. Include size acked, cemented,	of gravel (diamet	er) and sand (fine	e, medium, coan	clay, hardpan, shale, s se), color of material, yellow sand; 27 ft. to 1	structure
FT. to 42 FT	Hardp	an Gravel					
FT. to FT				·			
FT. to FT							
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FT.to FT					 	·	
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		If Y		EST DATA IN G.P.M Different Depths During			
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; FT	1 6	P,M.					
T	G	.м.					
<u> </u>	:	- h - h - m - 1 - 1	967		Movem	ber 1, 1967	·····
e Well Was Comple	eted : <u>Q</u>	ctober 1, 1	701	Date of Rep. ידי	01 4	M B. CHURCH	ONPAN
Town Permit Nun	nber:11			Well Driller	012	(Signature) Dece	

SKETCH SHOWING LOCATION OF PREMISES IN TOWN: (Show distance and direction from road intersection or other landmark.)



INDICATE NORTH

DIAGRAM SHOWING LOCATION OF WELL ON PREMISES:

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ROUTE DIRECTIONS FOR REACHING WELL SITE FROM NEAREST CITY OR VILLAGE CENTER:

 \rightarrow

DATE ---- Sept. 19, 1967

WELL DRILLER'S PERMIT

I, WILLIAM S INLICAN	of the Firm of
	- A D LECKER D.
CHUSCA COMPANA (Wedge	88) - Pro. Box 67, Seymont, Cond.
	well drillers duly and currently icut Water Resources Commission and
	7 of the 1953 session of the Connec-
ticut Legislature, for a well to be	
Name of Property Owner: 174 N	WILLIAGE THE COLLARS THE
Address of Property Owner: 237	Met Aurora Sr Warerbury
Address of Premises on which well Is	/// //=
Approximate Location of the Well wil	11/1 117
of this Permit.	
The undersigned is aware that uponfordate, together with a well log of in	completion of this well the above formation required under (c) and
d) of Public Act 187 of the 1963 se Ources Commission, 223 State Office	ssion must be sent/to: Water Re-
on the form entitled Well Completi	
to registered drillers.	1/1/2/
	THE STEPHEN B. CHURCH COMPANY
	Applicant J. Llucau
))	
to the above named well driller in a	issued for a well located as shour
Public Act 187 of the 1963 session of	of the Connecticut legislature
this 27th day of September	, 1967.
•	
	John J. Startley
	BUILDING OFFICIAL OF TOWN CLERK

CITY OF WATERBURY

φεριούς νέτος (10 τεβρόνημε) το εγρίπου στο 10 τεβρόνημε (20 σ. μ.) Transport of the first of the second of the Cosignob Bisson to the property of the state of Palyone Aps 137 of the 1905 and ion of the Councetion to legislature this 27th day of September .

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STATE OF CONNECTICUT

PERMIT NUMBER 47525-

WELL DRILLING PERMIT

STATE OFFICE BUILDING, HARTFORD, CONNECTICUT 06115

WATERBURY	EAST AURORA STREET		
LOCATION OF WELL (Town)	(Street)	(Lot Number)	DATE
WATERBURY ROLLING M	ILLS, INC.		7/18/78
OWNER OF WELL	C arura m		
INDIVIDUAL BUILDER OWNER'S ADDRESS	OTHER (Specify)		
	terbury, Conn. 06720		
	D BUGINEGE	TEST	Est. No. of
PROPOSED DOMESTIC	ESTABLISHMENT FARM	2 t x WELLS	People being
WELL PUBLIC SUPPLY	X INDUSTRIAL AIR COND	OTHER (Specify)	NONE
	SKETCH OF WELL LOCATION	N	
Locate wel	with respect to at least two roads, showing distant		
Location of lot to at le	east two roads	Well location on lot and to house	(if present)
Indicate North Recuse	TEST Wells	Sylvania or state of the state	
Approximate number of feet from well to nearest source of possible contamination:	NOT FOR DRINKING PURPO	OSES	
25-131 of the 1969 Supplement to the Gener Board. This permit is not valid until all info	tion of the well, a "Well Completion Report" control statutes must be sent to the owner, the Board cormation is filled in and it has been counter-signed.	and the Water Resources Commission of	n the form provided by the
APPLICANT (Signature)	APPLICANT'S ADDRESS		REGISTRATION NO.
THE STEPHEN B. CHURCH	CO. P.O. Box 67, Seyn BY (Token Health Officer or Agent)	nour, Conn. 06483	DATE 23
APPROVED REJECTED	James (Stem	8-1-78
REMARKS	()		
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01 C# d) & 700/00 2022 ... 100 f out 1 PNOT .375

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WELL COMPLETION REPORT

WD8-5 12-69 REV. 9-71

STATE OF CONNECTICUT WELL DRILLING BOARD

State Office Building HARTFORD, CONNECTICUT 06115

Do NOT fill in	
STATE WELL NO.	_
OTHER NO.	

NAME ADDRESS East Aurora St., Waterbury 06720 WATERBURY ROLLING MILLS (No. & Street) (Town) (Lot Number) LOCATION OF WELL East Aurora St., Waterbury, 06720 BUSINESS 2⅓ x TEST WELL S DOMESTIC FARM **ESTABLISHMENT** PROPOSED USE OF PUBLIC AIR OTHER WELL INDUSTRIAL CONDITIONING SUPPLY (Specify) X CABLE PERCUSSION COMPRESSED OTHER DRILLING ROTARY AIR PERCUSSION (Specify) EQUIPMENT DIAMETER (inches) WEIGHT PER FOOT LENGTH (Jeet) DRIVE SHOE WAS CASING GROUTED? CASING X YES X WELDED YES [NO THREADED DETAILS 62' HOURS YIELD (G.P.M.) 10" YIELD X PUMPED BAILED COMPRESSED AIR 24 140 TEST MEASURE FROM LAND SURFACE-STATIC (Specify feet) | DURING YIELD TEST (feet) Depth of Completed Well WATER 76' 9" 58' 6" in feet below Land surface: **LEVEL** LENGTH OPEN TO AQUIFER (feet) 19' 9" JOHNSON SCREEN DETAILS SLOT SIZE GRAVEL SIZE (inches) FROM (feet) TO (feet) DIAMETER (inches) IF GRAVEL Diameter of well including gravel pack (inches): 16" 1/8" PACKED. 76 20 20 10 DEPTH FROM LAND SURFACE Sketch exact location of well with distances, to at least FORMATION DESCRIPTION FEET to FEET two permanent landmarks. 51/2 TW NO 2 SEE ATTACHED SHEETS 分 If yield was tested at different depths during drilling, list below FEET GALLONS PER MINUTE WELL COMPLETED PERMIT NO. REGISTRATION NO. DATE OF REPORT 3/31/79 THE STEPHEN B. CHURCH CO. 24/79 47525 23

WATERBURY ROLLING MILLS Waterbury, Ct.

16" x 10" Gravel Pack Well #1

Formation

0' - 9' - Coarse gravel

9' - 25' - fine sand w/silt & clay

25° - 30° - fine to medium sand, very dirty w/silt & clay

30' - 35' - medium to coarse sand, very dirty w/fines & clay

35'- 40' - medium to coarse sand w/some fines & clay & mica

40' - 45' - medium to coarse send w/some gravel, very dirty w/fines & clay

45° - 50° - coarse sand w/some gravel vy. dirty w/fines & clay

50° - 55° - coarse sand & gravel, by. clay & mica

55' - 60' - coarse sand w/some gravel - hvy. fines & clay & wice

60' - 65' - coarse sand & gravel heavy clay packed tight

65' - 70' - coarse sand & gravel, hvy. clay & fines

70' - 73' - coarse sand & gravel, hvy. clay & fines

73' - 75' - gravel hardpan

75' - 76'9" - coarse sand & gravel

76'9" - refusal

Depth - 761 9"

2.16

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Pumped - 140 g.p.m. for 24 hours at a pumping level of 58 6"

Casing - 42 ft. of 24" dia.

57 ft. of 16" dia.

62 ft. of 10" dia.

Screen - 16 ft. of 10" Telescope 20 slot

Gravel Pack - Cape May No. 0 Gravel

WATERBORY C HOLDS STELLS

24 Test noll el

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- of a profit in a cook water tot
- 9' 11' curus praves a cobbles pays went nasa
- 11' 15' fine o wediem se a, vy. erroy w/sitt / clay
- 15' 27' file to mediam sand, vy.dirty w/silt & clay cook very lictle water theavy mica
- 20" = 35" fine sumu w/silt & clay -took vy. lictle water
- 35' 45' fine to median sand vy.direy w/silt m clay -- took vary little water
- 45' = 54' is a said w/sixt a clay then no water 50'
- 34% 35% meal maio colores mend, by, direy blave cook little was
- 33' 60' despion o occurso sand, circy o fines to clay a paper shows hand book water fair
- 60° 65° madium to dourd's dand, dirty u/Simin & beavy mica took water lood pipe orove sasier
- note de esertê/w ji tin levere encele and electros of curbille (70° 170°). Tanta de la decimienta de la compania del compania de la compania de la compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del co
- 70 to 73 to warman sano are y v/films formal o took likely salar
- 75' 79's" course band a granal, vy. arr.y m/selt a clay of con-

7974 .254544

Pelieu back on 7.1

Set 2 screen some stored on better to bloc on top ...

Danaloped 1 screen acts to the stored or rank pumped 32 gapents

both screens pumped 55 gapents. ... + 5 gals. 25 sec.

Static - 7 11

Ali samplas heavy with mice

- Materials left i.

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661 2 1/2 Pipe T.D.

- 2 1-1/4 Spent past spreams 30 % 43 8100
- 1 1 1/2" Coupling
- 11 o" x 1-1/4" dipe
- 2- 1 1/4 Complines
- 1. 1 1/2 a 1-1/4 b.salag
 - 1 1 1/4" And Cap
 - 1- 2/1/23 and cup
 - 1- 2-1/2" Brive Shoe

25" Teat Hall -2

East side of property, near Railroad tracks

- 3' 9' doarea gravel luosa plas drove good
- 9' 25' fine sand w/silt a clay rook no water 15, 20', 25, seavy w/mics
- 25' 30' fine to hedium sand, vy. cirty w/silt & clay took no water packed tight
- 30' 35' medium to course sand vy. dirty w/fides & clay took lintle water pipe drove hard nvy. mica
- 35'- 40' madium to coarse sand w/some fines & clay & mica rook water good, pipe urove hard ~
- 40' 45' medium to coarse sand w/some gravel, very dirty w/fines & cluy book vytituble water insury mica, pipe drove hard
- 45' 50' coars: sand 9/some gravel vy.dirty w/fines & clay took very fittle water, seavy mica, pipe drove dard
- 50' 55' coarse sand degravel, neavy clay , sica took little water give wrote hard
- 55' 60' course sund w/some presal dvy.11. s. & clay & mich cook lettle water, pipe drove hard
- 60° 65° course sund S gravel neavy clay pucked tight, pipe drove have a fook water ,ood 66°
- 65' 70' coars saird & "raver, avy, cray & lines cost book books water 71' pipe drove and parted book to deavy miss.
- Total Astronomy solid a graves, nuyled by a dineo, pipa wroke ward.
- 731 731 graval harman

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State 14' 3

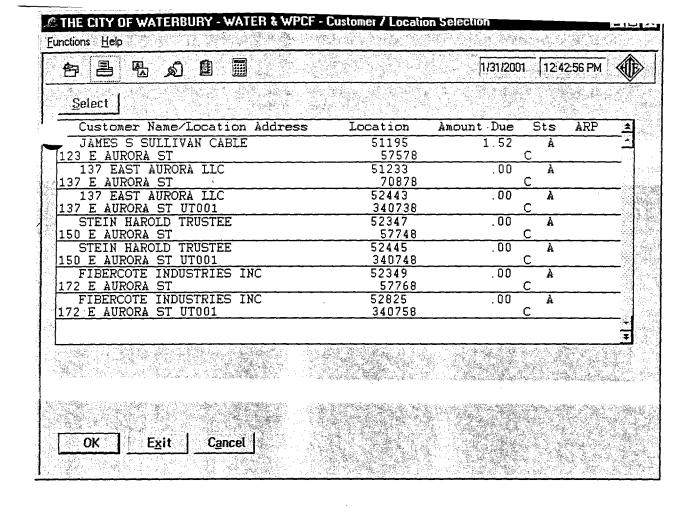
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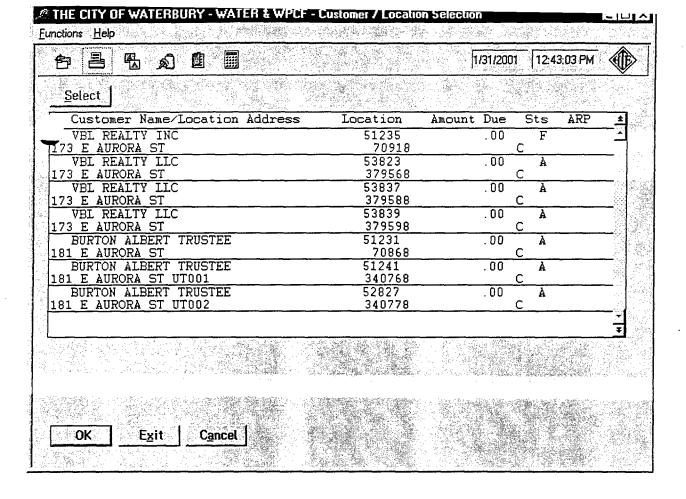
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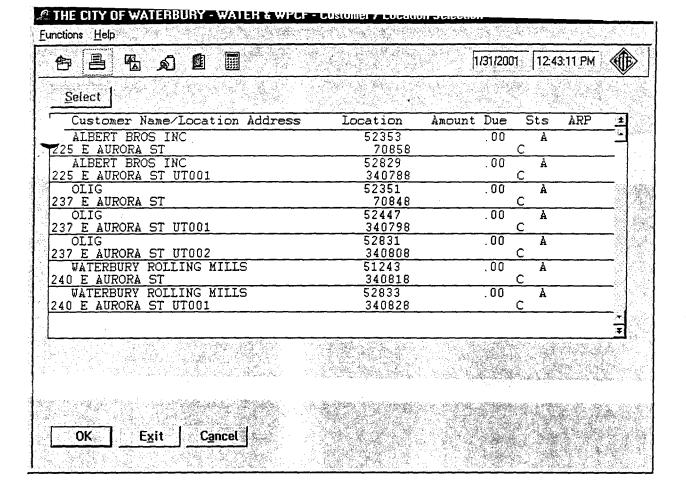
- $2 \cdot 1/2$ ·ipe 1 . . .
 - 2 1-1/47 Steel Past Screen 4, a 63 site
 - 1 1-1/4 coupling
 - 1 1-1/2 % 1-1/4 Dushing
 - 1 1.1/4 1.d Cup
 - 1 = 1-1/2 doughlo,
 - 1 = 2-1/2 dud lap
 - 1 1 177 Only and

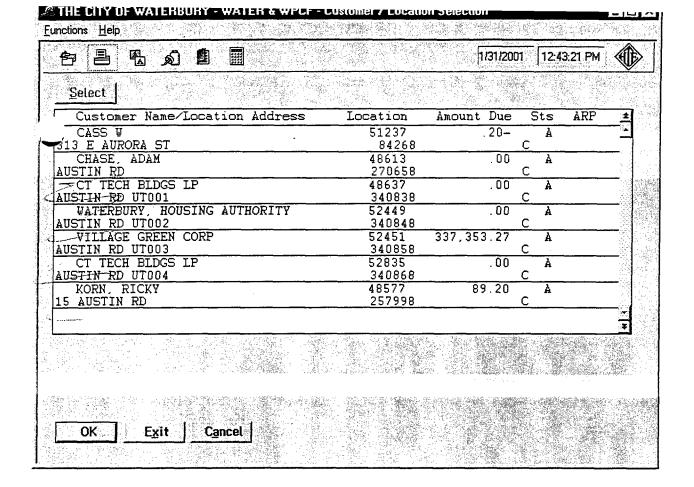
APPENDIX B

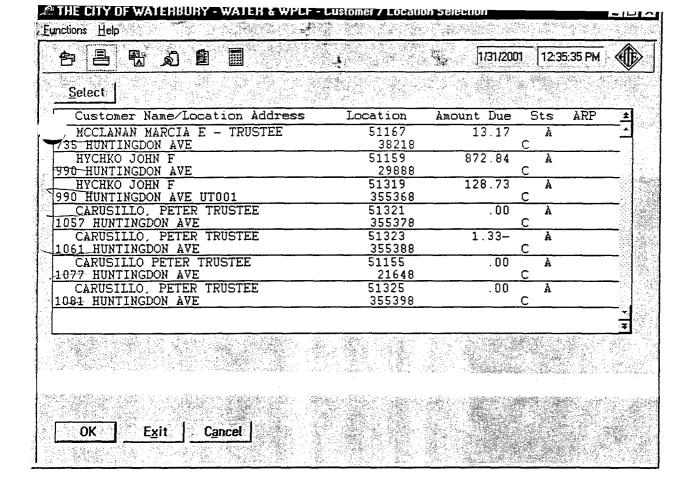
Waterbury Water Company Records

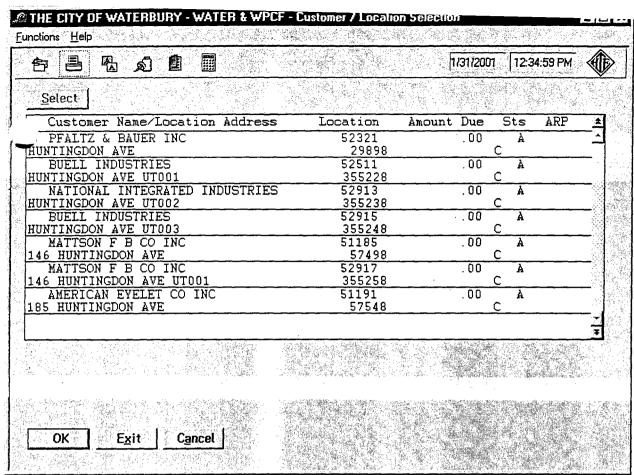












111 Landret Corp.

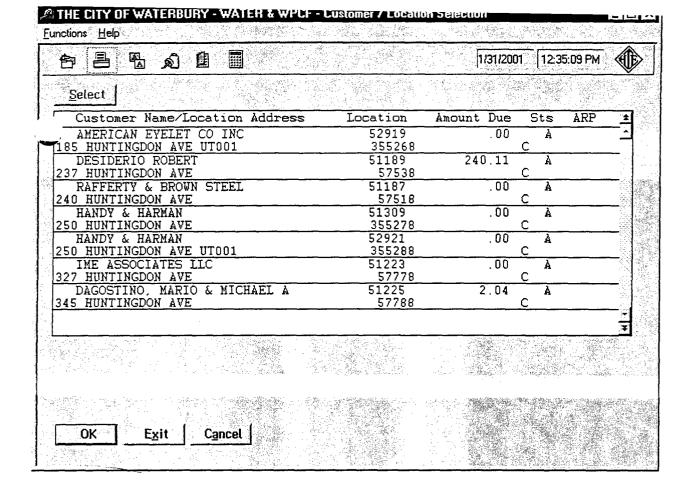
E. Fevera

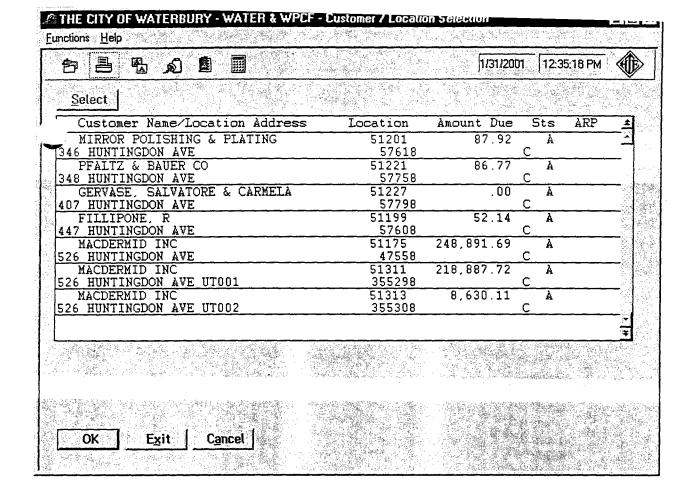
Had Water on Such rody free

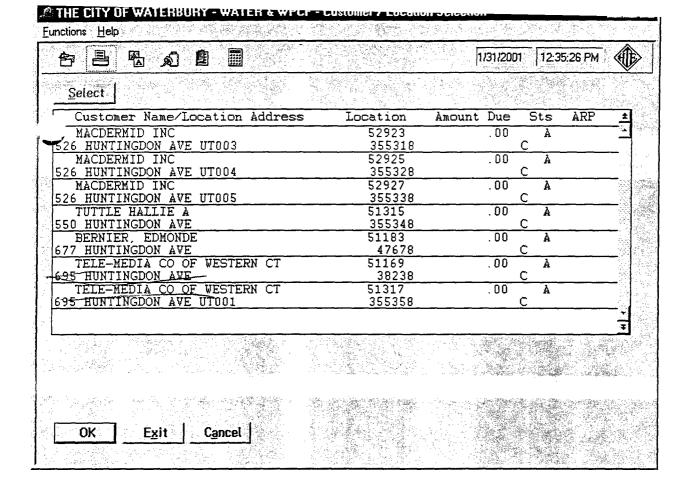
75 from Sugary Light rody free

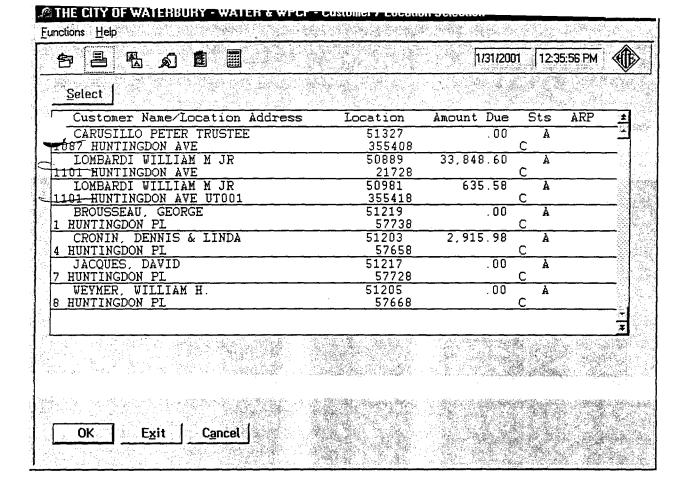
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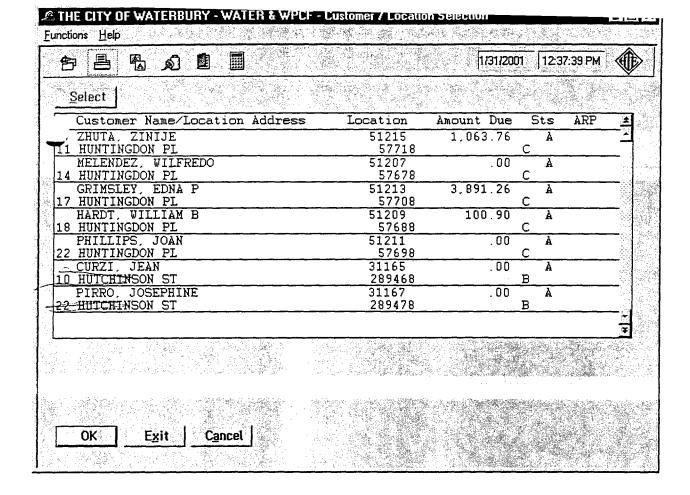
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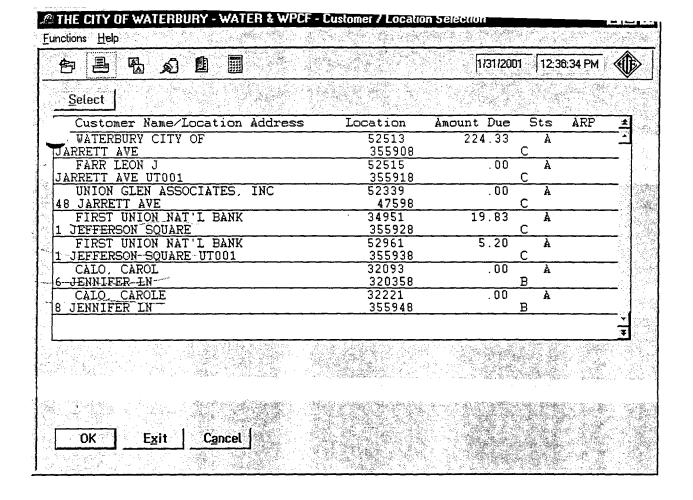


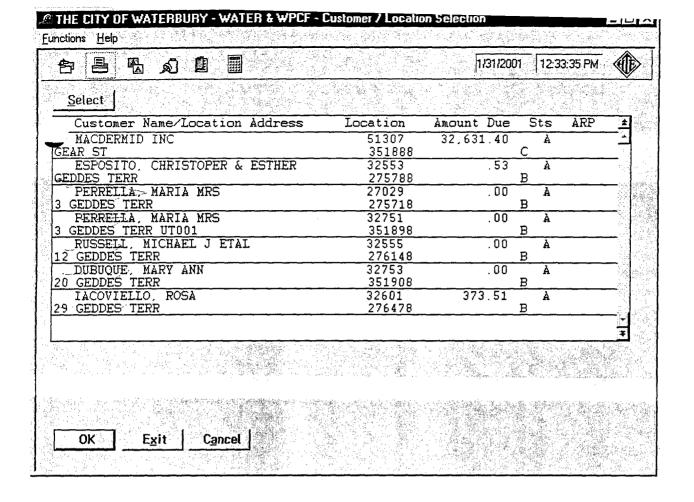


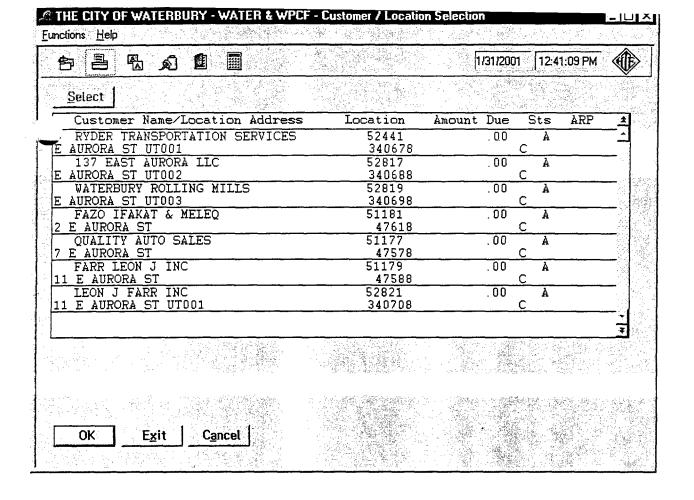












APPENDIX C

Waterbury Tax Assessor's Field Cards

HKP

Associates, Inc.

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	· ·	INFORMATION	FULL VALUE	100000 45757 2220571	2366328					PUBLIC UTILITY 4-1 LAND 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
	NBHUSTIE LAKU	SMENT	UNITS	1.00						PERTY CLASSIFICATION COMPREZIAL 2- LAND(EXCEPT APT.BLDS) BUILDINGS APARTMENTS CONDOMINIUMS OUTBUILDINGS LAND (APT BUILDINGS) LAND LAND BUILDINGS IMPROVEMENTS
DATA	98		YEAR CLASS	1989 3-1 3-3 3-2	TOTAL					PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
CITY OF WATERBURY REAL		NAME OF BUSINESS	* MACDERMID INC MACDER	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CHANER HISTORY	MACDERMID INC 0630 0149 00/00/0000		LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE DODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.45 3-1 48000.00 165600 115920	BACK- MEDIUM WATER PUBLIC DRIVEMAY BACK- COMPARED GAS/ELEC MAJOR USE COMPARED DATE VALUE DESCRIPTION C.O.

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, and	DESCR	HT IND HT IND HT IND HT IND T USE 8	BUILDING DESC BUILDING/SECT- EFF YR BUILT - BUILT AS - EXTERIOR COND - EXTERIOR COND - EXTERIOR COND - GRADE MOD - GRADE MOD - GRADE MOD - GRADE MOD - GRADE MOD - EXTWAL MAT - EXTWAL MAT - EXTWAL MAT - EXTWAL MAT - EXTRACE MAT					
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CITY OF WAIEKBURY KEAL PROPERTY TION ASSRS MAP - LOT 2018 CENSUS TRACT	HUNTINGDON AVE 128-864-3	CURRENT CHINER NAME OF BUSINESS	NAME 1 MACDERNID INC MACDERNID CORP NAME 2 ADDRESS 0245 FREIGHT ST ADDRESS UATERBURY ADDRESS WATERBURY - ADDRESS CATOR - 21P 06702 - CAUNER HISTORY	NAME SALE PRICE VALID DEED TYP MACDERMID INC 0630 0149 00/00/0000	LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 WEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.45 3-1 48000.00 165600 115920	SITE SITE DESIRABILITY TYPICAL	BACK- MEDIUM WATER PUBLIC DRIVEWAY BACK- DITITIES GAS/ELEC MAJOR USE COMPARED PROPERTY CLASS BUILDING PERMITS DATE VALUE DESCRIPTION C.O.

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111)	YEAR FIN	1970 02 1920 02		V NEASURE	SQUARE	SQUARE SQUARE	
HINTINGDON AVE	VALUE UNIT CLASS	AREA C AREA C		DESCRIPTION	DOOR, OVERHD COM	CANPY, W/SLAB	
526	UNIT NO.	SQ FT	1PTION DATA 0101 1957 LIGHT IND PROCESSING LIGHT IND PROCESSING AVERAGE NORMAL GABLE BUILT UP 111 1.00 000 CONC BLOCK 2458 18 BRK/CB VENEER 764 139606				
DRODERTY LOCATION	USED DESCRIPTION	LIGHT IND PROC,OFFIC	5				
Eduad	USED AS DI	LIGHT	BUILDING/SECT- EFF YR BUILT - BUILT AS - USED AS - EXTENIOR COND- FUNCT UTILITY- ROOF TYPE - ROOF MATERIAL - GRADE MOD - SECTION PERIM- FUNCTOR BUILT - FUNCTO				

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KII DAIA		ASSESSMENT	YEAR CLASS 1989 2-5 2-2 2-1	TOTAL					PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) 1NDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
CITY OF WATERBURY REAL I	PROPERTY LION ASSESS MARY: LOI HINTINGDON AVE 129-707-8	T OWNER NAME OF BUSINESS	NAME 1 - CITY OF WATERBURY NAME 2 - RECREATION FIELD ADDRESS - ADDRESS - 236 GRAND ST ADDRESS - WATERBURY CI	AIP ** US/UZ CWNER HISTORY	NAME SALE PRICE VALID DEED TYP CITY OF WATERBURY 478 613 00/00/1937 N	LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 20.18 2-1 42000.00 847560 593292	SITE SITE DESIRABILITY .	- YES - PUBLIC - GAS/ELEC - DESCRIPTION

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SIDE 2		NON		RCNLD ASSESSED	5082 3557 141 98 3498 2448	87 6104
	HEAT TYPE PCT TYPE PCT			RCN PCT GD COST MOD	9240 55 943 15 9995 35	
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ASSRS MAP + LOT	INTERIOR DESCRIPTION YEAR LOCATION HT FIN FROM TO PSIY A	1959 01 01 8	SKETCH CP6 868 S/F	NEASURE DIM 1	SQUARE FE DIMENSION SQUARE FE	
HUNTINGDON AVE	NO. VALUE TASS YE	ပ		DESCRIPTION	POLE, STEEL FOR FENCE, CHN LK CANPY, W/SLAB	
DRODERTY LACATION	USED UNIT ONLY TYPE	ATHLETIC FIELDS SQ FT	BUILDING DESCRIPTION DATA BUILDING/SECT 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT AS 1959 BUILT UTILITY: SCOF MATERIAL 111 GRADE MOD 1.00 SECTION PERIM: 200 EXTAAL MAT 200 EXTAAL MAT 200 EXTAAL MAT 36 EXT IN 38 EXTRACE MAT 36 EXTAAL LINET 36 EXTAAL LINET 36 EXT IN 36 EXTRACE MAT 36 EXTRA		•	

	IRACI NBHDSITE CARD SIDE	200	ASSESSMENT INTURACTION		TOTAL 104242 72970				PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 4-1 LAND 2-2 BUILDINGS 2-3 APARTMENTS 4-2 BUILDINGS 2-4 CONDOMINIUMS 4-3 OUTBUILDINGS 2-5 OUTBUILDINGS 4-3 OUTBUILDINGS 2-5 OUTBUILDINGS 5-1 RESIDENTIAL 3-1 LAND (APT BUILDINGS) 5-1 RESIDENTIAL 3-1 LAND 5-2 COMMERCIAL INDUSTRIAL 3-5-3 INDUSTRIAL 3-1 LAND 5-5-5 OUTBUILDINGS 3-2 BUILDINGS 5-5 OUTBUILDINGS 3-3 IMPROVEMENTS 5-5 OUTBUILDINGS
CITY OF WATERBURY REAL	ASSRS	01-101-621	CURRENI OMNEK	NAME T + DANGELO ANIHONY P & CONCEILA K NAME S - SURV ADDRESS + 7 EAST AURORA ST ADDRESS + WATERBURY CT ADDRESS + 06708		NAME DANGELO ANTHONY P. & CONCETTA K. 2565 77 12/21/1989 N. Q DANGELO ANTHONY P. 1102 63 01/01/1974 N. W.	LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	: SITE ACREAGE .58 2-1 420	SITE NBMD TYPE MIXED ELEVATION YES LAMBSCAPING TYPICAL ROAD LOCAL SEWER YES LAMBSCAPING TYPICAL TRAFFIC MEDIUM WATER PUBLIC DRIVEWAY LIGHT IND PROCESSING BLDG SET BACK LOCAL SEWER COMPARED

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TUI + days 40224	INTERIOR DESCRIPTION LOCATION HT FROM TO PSIY ARE	01 01 10	## No. 10 Per 10	 	NEASURE DIT	
EACT AIDODA CT	YEAR FIN	AREA C 1978			DESCRIPTION	
7 640	SNS CNS	SQ FT AR	IPTION DATA 0102 1978 LIGHT IND PROCESSING LIGHT IND PROCESSING AVERAGE NORMAL GABLE SHINGLES SHINGLES 1111 1.00 000 FRAME 100 10			
nooneerv + of Attou	USED AS DESCRIPTION	LRG CHAIN, SALE &SERV		SECT TOT AREA 708 PARTIAL CONST. 224 NOTES		

CITI OF WAIEKBURI KEAL FROFERIL DAIA	ASSRS MAP + LOT 20NE CENSUS TRACT NBHDS1TE CARD SIDE	IRORA ST 129-707-10 1G 8000001	CURRENT CHINER ASSESSMENT INFORMATION ASSESSMENT INFORMATION	P & CONCETTA K	1989 2-1 1.00 46971 32880 2-3 1.00 6157 4310	NER HISTORY 104242	VOL PAGE DATE SALE PRICE VALID DEED TYP	CONCETTA K 2565 77 12/21/1989 N Q 1102 63 01/01/1974 N W	LAND DESCRIPTION DATA GE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	,	TOTAL	LRG CHAIN, SALE &SERV AUTO SALES & SERVICE AUTO SALES & SERVICE 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-5 LAND (APT BUILDINGS) 2-6 LAND (APT BUILDINGS)	INDUSTRIAL 3- 5-3 INDUSTRIAL 3-1 LAND 5-4 WETLANDS 3-2 BUILDINGS 5-5 OUTBUILDINGS
\ \	PROPERTY TION	7 EAST AURORA ST		ے ا	() ;	- 06708		\checkmark	LAND DESCRIPTION LAND TYPE ACREAGE MEASURE 1	PRIME SITE ACREAGE .58	SITE SITE	BACK MEDIUM BACK BUILDING BUILDING DATE	

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OF WATERBURY	INTERIOR DESCRIPTION LOCATION HT FROM TO PSIY AREA	01 14 3104	SKETCH		ш	E DIM 1 DIM	FE 144 FE 100 FE 18000	
CLTY	YEAR S FIN	C 1984 01		·		DESCRIPTION MEASURE	DOOR, OVERHD RES SQUARE DOOR, OVERHD RES SQUARE PAVNG, ASPHLT SQUARE	
7 FAST ALIBORA	NO. VALUE			ALE &SERV		DESCR	DOOR, DOOR, PAVNG	
DPODERTY : OCATION	UNIT RIPTION TYPE	LG CHN,GRGE/SERV ARE SQ FT	BUILDING DESCRIPTION DATA	LT 1977 LTG CHAIN, SALE &SERV LRG CHAIN, SALE &SERV CMD AVERAGE 111 111 110 RIM: CONC BLOCK 261 TT 75 CONC BLOCK 261 TT 75 TT 75 LT 75	REA. 3104 NST. NOTES			
VIGHOUGH	USED DESCRIPTION	LG CHN,GRC	BUIGLING	RULLDING/SECT- EFF YR BUILT - BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY- ROOF TYPE ROOF TYPE ROOF TYPE ROOF TYPE ROOF TYPE ROOF WHERIAL- GRADE GRADE CRADE FUNC OBS WILT- EXTARE MAT EXT LINFT EXT LINFT EXTFACE MAT FUNCHALLINFT	SECT TOT AREA. PARTIAL CONST. NOTE			

,	NBHDSITE CARD	8000001	ASSESSMENT INFORMATION	CLASS UNITS FULL VALUE ASS	3-2 1.00 55000 24500 3-2 1.00 61400 42980	TOTAL 96400 67480				COMMERCIAL 2- COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 4-1 LAND 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) 5-1 RESIDENTIAL 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS 3-3 IMPROVEMENTS 3-4 WETLANDS 3-5 OUTBUILDINGS 3-5 OUTBUILDINGS 3-7 IMPROVEMENTS 3-8 IMPROVEMENTS 3-9 IMPROVEMENTS
CITY OF WATERBURY REAL	ASSRS HAP - LOT	11 EAST AURORA ST 129-707-12 1G	CURRENT CANER NAME OF BUSINESS	NAME 1 - FARR LEON J INC LEON J FARR INC	ADDRESS - 11 EAST AURORA ST ADDRESS - WATERBURY CT ADDRESS - 06708		NAME VOL PAGE DATE SALE PRICE VALID DEED ITP FARR LEON J INC 1134 141 00/00/1974 75000 N W	LAND TYPE ACREAGE WEASURE 1 WEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE .41	- LOCAL SEVER - YES LANDSCAPING - MADIUM WATER PUBLIC DRIVENAY BACK - COMPARED - COMPARED - PROPERTY CLASS BUILDING PERMITS DATE VALUE DESCRIPTION C.C.

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CITY OF WAILEKBOKY KEAL FROFEKTY THOM ASSES MAP - 171	JARRETT AVE 129-707-13	CURRENT CHANER NAME OF BLISTWESS	NAME 1 - UNION GLEN ASSOCIATES INC	MAME 2 :: ADDRESS :: 88-22 81 ROAD ADDRESS :: GLENDALE NY ADDRESS :: 11285		NAME VOIL PAGE DATE SALE PRICE VALID DEED TYP UNION GLEN ASSOCIATES INC 3910 173 12/20/1999 275000 Y W CIPRIAND MARK, ANGELO FARI 2548 171 11/08/1999 240000 Y W COLANGELO NICHOLAS J & 1316 149 04/04/1978 N N W	1,			LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE .27 3-1 42000.00 31500 22050	C

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S MAP + LOT	129-707-15	NAME OF BUSINESS				PAGE DATE SALE PRICE	208 01/01/1968		USE CODE UNIT PRICE	2-1	TOTAL	YES LANDSCAPING PUBLIC DRIVEWAY GAS/ELEC MAJOR USE PROPERTY CLAS DESCRIPTION	
TION ASSRS MAP - LOT	URORA ST	CURRENT DAINER	CITY OF WATERBURY	WATER DEPT	00000 CMNER HISTORY	VOL	TERBURY 925		LAND DESCRIPTION DATA ACREAGE MEASURE 1 MEASURE 2	ACREAGE 3.02	SITE ************************************	C HOCAL SEWER WATER WATER UTILITIES COMPARED COMPARED BUILDING PERMITS	
PROPERTY	21		NAME 1 .	NAME 2 - ADDRESS - ADDRESS - ADDRESS -	- 41Z	NAME	CITY OF WATERBURY	 	 LAND TYPE	PRIME SITE	way T Cybe	ROND TRAFFIC BLDG SET BACK- VIEW	

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c 3413	SPRINK TYPE PCT	NON NON NON		RCNLD ASSESSED 745 521 53524 37466 1188 831	58.7 38819
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4140	3000008	ASSE	YEAR CLASS	1989 2-1	TOTAL			PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) 1 NDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
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21	UNIT NO. TYPE UNIT	AGE SQ FT ORA	0201 1970 MULTI USE&OCC, GARAGE MULTI USE&OCC, GARAGE NORMAL FLAT BUILT UP 111 1.00 12955 224 520 16		
PROPERTY LOCATION	USED AS DESCRIPTION	MULTI USE&OCC,GARAGE MULT USE & OCC,STORA	### ### ##############################		

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OF MAILENDONI NEAD FNOTENTI		NAME OF BUSINESS			SALE PRICE VALID DEE	983 N Q 983 N Q 983 N Q 978 35000 N U	UNIT PRICE FULL VALUE ASSESSED	31500	TOTAL 31500 21000 DESIRABLELITY	EAMDSCAPING - TYPICAL DRIVEWAY MAJOR USE - DINERS, LUNCHEONETTES PROPERTY CLASS RESTAURANT/CAFE/BAR C.O. DATE COMP DATE
ASSRS MAP + LOT	129-865-3	NER			VOL PAGE 16 59 57 180 96 340 76 329	1655 95 11/30/1983 1655 97 11/30/1983 1632 75 08/05/1983 1307 217 01/23/1978	ON DATA MEASURE 2 USE CODE	2-1	ELEVATION	v a
PROPERTY TION	J	CURRENT OWNER		ADDRESS - WATERBURY CT ADDRESS - 21P - 06708 CABLER - 06708 CAMPER HISTORY	MAME FAZO SALI FAZO IFAKAT & SALI SURV FAZO IFAKAT & MELEQ FAZO SALI & IFAKAT	FASO ARIF (LU) & SALI FEE FAZO ARIF & SALI BUSHKA EDWARD I FAZO ARIF & MUSTAFA	LAND DESCRIPTION NEASINE 1	E AC	SITE HIXED	BACK- MEDIUM BACK- BACK- BACK- DATE

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	CARLO CARLO	ASSESSMENT [REDRMATION	UNITS FULL VALUE ASSESSED	1.00 13800 9660					ION CODES PUBLIC UTILITY 4- A-1 LAND 4-2 BUILDINGS 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- IGS) 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
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CITY OF WATERBURY REAL	PROPERTY TON AVE 120-845-4	CONTRACTOR OF BUSINESS	0	NAME 2 - ADORESS - 67 MIDDLEWAY EAST ADDRESS - WATERBURY CT ADDRESS - WATERBURY CT 21P - 06708	NAME VOL PAGE DATE SALE PRICE VALID DEED TYP	SALI IFAKAT & SALI SURV 3257 180 08/16/2000 N IFAKAT & MELEQ 2896 340 10/07/1992 N SALI & IFAKAT 2676 329 11/07/1990 N ARIF & SALI 1655 95 11/30/1983 N ARIF & MUSTAFA 1307 220 01/23/1978 N	LAND DESCRIPTION DATA + AND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE .13 5-2 42000.00 31500	NBHD TYPE - MIXED ELEVATION - YES LANDSCAPING - TYPICAL SENER BLOG SET BACK - LOCAL SENER - PUBLIC DRIVEWAY - TYPICAL WATER - PUBLIC DRIVEWAY - TYPICAL DRIVING PERMITS - COMPARED - COMPARED - COMPARED - COMPARED - DATE WALUE DESCRIPTION C.O. DATE COMP DATE

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HINTINGDON AVE	VALUE YEAR			DESCRIPTION	PAVNG, ASPHLT		
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PROPERTY TION ASSRS MAP LOT ZONE CENSUS TRACT	EAST AURORA ST 129-865-5	CURRENT CHINER NAME OF BUSINESS	NAME 1 - FAZO SALI NAME 2 - ADDRESS - 67 MIDDLEWAY EAST ADDRESS - WATERBURY CT ADDRESS - WATERBURY CT ADDRESS - 21P - 06708	OWNER HISTORY	HAME VALE PAGE DATE SALE PRICE VALID DEED TYP FAZO SALI 4016 59 08/16/2000 N Q FAZO IFAKAT & SALI SURV 3257 180 09/15/1995 N Q FAZO SALI & IFAKAT 2676 340 10/07/1992 N Q FAZO SALI & IFAKAT 2676 329 11/07/1990 N Q FAZO ARIF & SALI 1655 95 11/30/1983 N Q BUSHKA EDWARD I 1655 97 11/30/1983 N Q FAZO ARIF & MUSTAFA 1307 220 01/23/1978 N W	LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE .27 3-1 42000.00 31500 22050	SITE ELEVATION * DESIRABILITY *	FOCAL SEVER FOCAL SEVER FOCAL SEVER FOCAL FRAFIC MEDIUM WATER FOURLIC DRIVENAY FOCAL

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0010	SPRINK TYPE PCT		RCNLD #	4190	7130
	TYPE PCT		PCT GD COST MOD	,	
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nochroto . oration	USED DESCRIPTION	BUILDING DESCRIPTION DATA BUILDING/SECT- EFF YR BUILT - BUILT AS - USED AS - EXTERIOR COMD- FUNCT UTILITY ROOF MTERIAL- GRADE MOD - EXTALL MAT - EXTALL MAT - EXTALL MAT - EXTALL MAT - EXTALL MAT - EXTALL MAT - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL LIMET - EXTALL CONST- PARTIAL CONST-			
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CILI OF WAIEKBOKI KEAL FROFEKLI	AURORA ST 129-865-6	CURRENT OWNER	E T & HALLIE A	# TEN-COM # 680 NORTH CHURCH ST # NAUGATUCK CT	ZIP - 06770 CANER HISTORY	NAME VOL PAGE DATE SALE PRICE VALID DEED IYP	TUTTLE PAULINE T & HALLIE A 1848 323 01/17/1986 N Q TUTTLE PAULINE T & HALLIE 1560 70 06/16/1982 175000 N W NOT REALTY INC 1295 21 11/02/1977 125000 N W	LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE .67 2-1 42000.00 33600 23520	SITE SITE DESIRABILITY -	BACK- MEDIUM WATER PUBLIC DRIVENT PUBLIC DRIVENT DRIVENT CLASS COMPARED PERMITS PROPERTY CLASS DATE VALUE DESCRIPTION C.0

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becomenty . Areticus	USED DESCRIPTION	LG CHN,GRGE/SERV ARE LRG CHAIN,SALE &SERV LG CHN,GRGE/SERV ARE	BUILDING/SECT 0101 EFF YR BUILT AS USED AS HULTI USE-M USED AS LRG CHAIN, S EXTERIOR COND AVERAGE FUNCT UTILITY NORMAL ROOF TYPE SHINGLES GRADE MOD 1110 SECTION PERIM 1110 SECTION PERIM 1110 SECTION PERIM 1110 EXTRACE MAT 7000 EXTRACE MAT 710 EXTRACT MAT 710 EXTRACT MAT					

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CITY OF WAIEKBURY KEAL	ASSES MAP - LOI	1-59-671		REIGHT ST BURY CT	CHIER HISTORY	NAME SALE PRICE VALID DEED TYP ACCDEMID INC 762 128 01/01/1901 N 0	LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE .65	SITE NUMBER - INDUSTRIAL ELEVATION TEAMSCAPING TYPICAL ROAD - LOCAL SEVER TEAMSCAPING TYPICAL ROAD TRAFFIC HEDIUM WATER PUBLIC DRIVENAY TYPICAL RAFFIC HEDIUM WATER GAS/ELEC MAJOR USE TYPICAL RAFFIC HEDIUM COMPARED GAS/ELEC MAJOR USE TYPICAL RAFFIC HEDIUM LITITIES GAS/ELEC MAJOR USE TYPICAL RAFFIC HEDIUM LITITIES GAS/ELEC MAJOR USE TYPICAL RAFFIC HEDIUM LITITIES GAS/ELEC MAJOR USE TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HEDIUM LATER TYPICAL RAFFIC HERMITER TY	

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PROPERTY TION ASSRS MAP - LOT CENSUS TRACT	HUNTINGDON AVE 143-783-1	CURRENT OWNER		E 2 RESS RESS RESS	ZIP = 06/08 Owner History	NAME SALE PRICE VALID DEED TYP MIRROR POLISHING & PLATING 1806 0329 00/00/0000		LAND TYPE ACREAGE NEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE 5.53 3-1 42000.00	SITE ELEVATION - DESIRABILITY ·	SENTER YES WATER PUBLIC UTILITIES GAS/ELEC COMPARED TLDING PERMITS TE VALUE DESCRIPTION

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346	UNIT NG. TYPE UNIT	CE SQ FT ESSI SQ FT AGE SQ FT	O101 1952 HEAVY MANUFACTURING HEAVY MANUFACTURING HEAVY MANUFACTURING GABLE SHINGLES 111 1.05 000 CONC BLOCK 1667 22 BRK/CB VENEER 987 68850		•				
PROPERTY LOCATION	USED DESCRIPTION	HEAVY MANUF, OFFICE HEAVY MANUF, PROCESSI HEAVY MANUF, STORAGE	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT 1952 BUILT AS HEAVY MANUF. USED AS HEAVY MANUF. USED AS HEAVY MANUF. USED AS HEAVY MANUF. USED AS HEAVY MANUF. USED AS HEAVY MANUF. CENTERIAL GABLE ROOF TYPE OABLE ROOF MATERIAL GABLE SECTION PERIM 111 CENTERIAL GABLE EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 22 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 EXTRAL MAT 100 PARTIAL CONST 100 PART						

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CILI OF WAIEKBURI KEAL FROPERII	HUNTINGDON AVE 143-783-1	CURRENT CHNER	MAME 1 MIRROR POLISHING & PLATING P & P INC MAME 2 - COMPANY INC ADDRESS - 0346 HUNTINGDON AVE ADDRESS - WATERBURY ADDRESS - WATERBURY - 06708 21P - 06708 QUMMER HISTORY	MIRROR POLISHING & PLATING 1806 0329 00/00/0000	LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 5.53 3-1 42000.00 232260 162582	SITE SITE ELEYATION - DESTRABILITY -	- YES - PUBLIC - GAS/ELEC - GAS/ELEC

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	S46 UNIT NE		1PIION DATA 0101 1952 HEAVY MANUFACTURING AVERAGE NORMAL GABLE SHINGLES 111 1.05 100 CONC BLOCK 1667 22 BRK/CB VENEER 987 68850				
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ZONE CENSE	346 HUNTINGDON AVE 143-783-1	CURRENT CHARER SAME OF BUSINESS		NAME 2 COMPANY INC ADDRESS +- 0346 HUNTINGDON AVE ADDRESS +- WATERBURY ADDRESS WATERBURY	ZIP -: 06708 CWNER HISTORY	NAME SALE PRICE VALID DEED TYP PAGE DATE SALE PRICE VALID DEED TYP MIRROR POLISHING & PLATING 1806 0329 00/00/0000	LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	SITE ELEVATION :	ROAD LOCAL SEVER YES LAMBSCAPING TYPICAL TRAFFIC MAJOR WE LOW RISE OFF BUILDIN WINNER DATE VALUE DESCRIPTION C.O. DATE COMP DATE

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PROPERTY TION ASSRS MAP - LOT ZONE CENSUS TRACT		WBHDS1TE CARD	0	SIDE
HUNTINGDON AVE 143-783-7	80	8000001		-
CURRENT DANER NAME OF BUSINESS		ASSESSMENT	INFORMATION	
NAME 1 + HALPERIN REAL ESTATE LLC 0	YEAR CLASS	S UNITS	FULL VALUE	ASSESSED
NAME 2 ADDRESS 172 EAST AURORA ST ADDRESS WATERBURY CT ANDRESS	1999 5-3	1.00	16640	11650
21P - 06708 CANER HISTORY	TOTAL		16640	11650
NAME VOL PAGE DATE SALE PRICE VALID DEED ITP	1989 5-3	1.00	3000	2100
HALPERIN REAL ESTATE LLC 3354 337 06/19/1996 575000 N W PFALTZ & BAUER INC 1697 164 06/27/1984 N W BRISTOL FLOWED GASKET CO 911 629 00/00/1968 N O	TOTAL		3000	2100
LAND DESCRIPTION DATA FAMILIYDE ACREAGE MEASING 1 MEASING 2 IISE CODE HAIT PRICE FULL VALUE ASSESSED				
E ACREAGE .76 5-3 42000.00 9450				
TOTAL TE ELEVATION - DESIRABILITY -				
BACK- MEDIUM WATER - PUBLIC DRIVEWAY BACK- COMPARED - GAS/ELEC WAJOR USE - COMPARED - PUBLIC DRIVEWAY BACK- MAJOR USE - PROPERTY CLASS	PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS	ERTY CLASSIFICATION COCIERCIAL 2- LAND(EXCEPT APT.BLDS) BUILDINGS APARTMENTS CONDOMINIUMS	PUBLIC UTILITY 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDING	-4
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MAME 2 ADDRESS - 172 EAST AURORA ST ADDRESS - WATERBURY CT ADDRESS - WATERBURY CT		1999	5-3 1.00	11010	7710
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HALPERIN REAL ESTATE LLC 3354 PFALTZ & BAUER INC 1697 RDISTOI EL OLIED GASKET CO 011	337 06/19/1996 575000 N W 164 06/27/1984 N W 629 00/00/1968 N O		 		
}			TOTAL	7000	4900
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E ACREAGE .51	5-3 42000.00 23520 16464				
	TOTAL 23520 7710				
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			LAND(EXCEPT APT.BLDS) BUILDINGS APARTMENTS	4-1 LAND 4-2 BUILDINGS 4-3 ONTRITIDINGS	
NUMBER DATE VALUE	DESCRIPTION C.O. DATE COMP DATE	2-4 CONDO 2-5 OUTBU 2-6 I AND	CONDOMINIUMS OUTBUILDINGS	VACANT LAND 5- 5-1 RESIDENTIAL	
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PRO LOCATION PARCEL 10	HUNTINGDON PL	CURRENT OWNER	CRONIN DENNIS C &		ZIP + 06708 CUNER HISTORY	NAME SALE PRICE VA	LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE PRIME SITE FRNT&DEPTH 50.00 120.00 1-1 400.00 20700	Site	NBHD TYPE	RESIDENTIAL 1- RESIDENTIAL 1- 1-1 LAND 1-6 MOBILE MFG HOMES 4-1 LAND 5-1 RESIDENTIAL LAND 6-1 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-2 BUILDINGS 5-2 COMMERCIAL LAND 6-2 1-3 DWELLINGS 1-8 MIXED - USE 4-3 OUTBUILDINGS 5-3 INDUSTRIAL LAND 6-3

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4 HUNTINGDON	STYLE CAPE USE CODE	NOTES	
	HUNTINGDON PL LDING DESCRIPTION DATA SKETCH	SKERTCH JAKA SKERTCH SKERTCH 1.5 0110-ONE FAMILY 1.5 1982 ANENGE	SEAS PITION DATA. SKETCH SKETCH 11.5 11.5 SKELA : 1386 SFLA : 1386

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PRG LOCATION PARCEL 10 ZONE CENSUS	CENSUS TRACT		NBHDS1TE	CARD	
HUNTINGDON PL 143-783-10			5050001 OF	. 02	_
CURRENT CUNER		AE	SESSMENT !	ASSESSMENT INFORMATION	
NAME 1 + WEYMER WILLIAM H & SANDRA M	YEAR	CLASS	UNITS	FULL VALUE	ASSESSED
MANE 2 ** ADDRESS * 30 SUNSET LANE ADDRESS * WOLCOTT CT	1997	1-1	1.00	4500 11042 4800	3150 7730 3360
ZIP - 06716 CAMER HISTORY		TOTAL		20342	14240
& SANDRA M 4078 309 12/22/2000 & WILLIAM 3948 26 03/20/2000 & VANESSA 3948 20 03/20/2000 & WILLIAM 3101 263 05/23/1994	1996	1-1 1-3 1-4 TOTAL	1.00	4500 11042 3600 19142	3150 7730 2520 13400
	1989	1-1	1.00	4500 11042 200	3150 7730 140
		TOTAL		15742	11020
LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED PRIME SITE FRUT&DEPTH 50.00 120.00 1-1 400.00 20700 14490					
TOTAL 20700 3150 SITE					
NBHD TYPE			COST CALCULATIONS	ILATTONS	
RESIDENTIAL 1- RESIDENTIAL 1- 1-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-1 LAND 1-3 DWELLINGS 1-4 OUTBUILDINGS 1-5 COMBOMINIUMS 1-6 WIRED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-9 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-2 EXCESS ACREAGE 1-3 MOBILE MFG HOMES 4-1 LAND 1-4 CONTROLLEDINGS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-6 WIRED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-9 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-2 CONDOMINIUMS 1-3 CONDOMINIUMS 1-4 CONTROLLEDINGS 1-5 CONTROLLEDINGS 1-7 CONTROLLEDINGS 1-8 MIXED - USE 1-9 CONTROLLEDINGS 1-9 CONTROLLEDINGS 1-1 CONTROLLEDINGS 1-1 CANDOMINIUMS 1-2 CONDOMINIUMS 1-3 CONTROLLEDINGS 1-4 CONTROLLEDINGS 1-5 CONTROLLEDINGS 1-7 CONTROLLE					·

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thotanii Dain			SFLA :1200	IMPROVEMENT DATA	CLSS COND YR BLT USE CD RCN PCT	C 3 1916 1-3 C 3 1916 1-3 TOTAL
PARCEL 10	143-783-10	SKETCH	+ + + 2.0/B 2		STR/MOD DESCR MEASURE DIM 1 DIM 2 GTY	OVERD DIMENSIONS 7 20 1 NCLSD DIMENSIONS 5 6 1
PROPERTY LOCATION	8 HUNTINGDON PL	BUILDING DESCRIPTION DATA	STYLE	. 1 1	NOTES STR/MC	PORCH, ENCL SD

Side		Information	FULL VALUE ASSESSED	4500 3150 11042 7730 4800 3360	20342 14240	4500 3150 11042 7730 3600 2520	19142 13400	4500 3150 11042 7730 200 140	15742 11020		S PUBLIC UTILITY 4- 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL	5-3 INDIRECTAL 5-4 WETLANDS 5-5 OUTBUILDINGS
L DAIA CT REMOSITE CARD	200005	ASSESSMENT INFI	YEAR CLASS UNITS	1997 1-1 1.00 1-3 1.00 1-4 1.00	TOTAL	1996 1-1 1.00 1-3 1.00 1-4 1.00	TOTAL	1989 1-1 1.00 1-3 1.00 1-4 1.00	TOTAL		PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS)	INDUSTRIAL 3-3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
Decimination ASSES MAP - LOT CALLE AND ECONOR TARK	HUNTINGDON PL 143-783-10 1G	CURRENT CHNER NAME OF BUSINESS	NAME 1 - WEYMER WILLIAM H & SANDRA M	ADDRESS - 30 SUNSET LANE ADDRESS - WOLCOTT CT	AUDKESS - 06716 21P - 06716 OWNER HISTORY	VOL PAGE DATE SALE PRICE VALID DEE M 4078 309 12/22/2000 N 3948 26 03/20/2000 N	3948 20 03/20/2000 N 3101 263 05/23/1994 N	VITONE LOUISE L & JOHN R 3101 164 US/20/1994 50000 N S 101 160 US/20/1994 N P N P N TONE LOUISE L & JOHN R 1579 129 10/01/1982 N Q N O N TONE LOUISE L & JOHN R 365 00/00/1952 N Q		LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	SITE	

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1/2-783-10	01-601-6	FUNC INT UTIL FIN	1.00		IMPROVEMENT DATA	
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Are deser	ANDKO MAR - LUI	INTERIOR DESCRIPTION LOCATION HT FROM TO PSTY AB	01 01 10	SKETCH	3 0 16 16 16 16 16 16 16 16 16 16 16 16 16	
2 2	PL	YEAR FIN	c 1997 0		DESCRIPTION NEA	
	HUNT I NGDON	NG: VALUE CLASS	AREA			
	Σ.	UNIT TYPE	ING SQ FT	TION DATA	LIGHT IND PROCESSING LIGHT IND PROCESSING AVERAGE NORMAL GABLE SHINGLES 1111 1.00 000	
***************************************	PROPERTY LOCALTON	USED DESCRIPTION	LIGHT IND PROCESSING	BUILDING DESCRIPTION DATA	BUILDING/SECT- BUILT AS U.IG USED AS LIG USED AS LIG USED AS LIG USED AS LIG EXTERIOR COMD- AVEI ROOF TYPE GRADE ROOF TYPE GRADE ROOF TYPE ROOF MATERIAL SHII GRADE MOD SECTION PER IM- YEAR BUILT EXT LINFT NOTES	

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port incation PARCEL ID CENSUS	CENSUS TRACT		NBHDS1TE	CARD	· o
HUNTINGDON PL 143-783-11 1G			5050001 OF	F 01	-
CURRENT OWNER		A	SSESSMENT	ASSESSMENT INFORMATION	
NAME 1 - MELENDEZ WILFREDO	YEAR	CLASS	UNITS	FULL VALUE	ASSESSED
NAME 2 - ADDRESS - 14 HUNTINGDON PL ADDRESS - WATERBURY CT	1989	1-1 1-4	88.6	4500 12914 100	3150 9040 70
ZIP - 06708 CHISTORY		TOTAL		17514	12260
VOL PAGE DATE SALE PRICE VA JOAN C 3948 28 03/20/2000 72500 JOAN C 3948 23 03/20/2000 72500					
3387 212 08/02/1996 45000 Y 3371 89 08/02/1996 N 681 122 01/01/1954 11500 N					
LAND CODE MEASURE 1 ME				7	
PRIME SITE FRNT&DEPTH 50.00 120.00 1-1					
150 TOTAL 3150 NOTES					
NBHD TYPE - MIXED DVL3 ROAD - LOCAL TRAFFIC - LIGHT BLDG SET BACK - LESS THAN 30'			COST CALCULATIONS	ULATIONS	
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RESIDENTIAL 1- RESIDENTIAL 1- 1-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-2 BUILDINGS 5-2 COMMERCIAL LAND 6-1 FARM 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-2 BUILDINGS 5-2 COMMERCIAL LAND 6-2 FOREST 1-3 DWELLINGS 1-8 MIXED - USE 4-3 OUTBUILDINGS 5-3 INDUSTRIAL LAND 6-3 OPEN SPACE 6-4 OUTBUILDINGS 6-5 WATER SUPPLY 1-4 OUTBUILDINGS 6-5 WATER SUPPLY					,

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										IMPROVEMENT DATA	_	c 2 1920 c 3 1916 c 3 1916 c 3 1916	·	TOTAL	
							<u>.</u> —	1.0/B 	·		DIM 2 QTY C	20 15 1 6 1			
PARCEL 1D	143-783-11	SKETCH			æ	:X12 (6	+ - 2	1.7/8 0	8 RP2-8X15		MEASURE DIM 1	DIMENSIONS 18 DIMENSIONS 8 DIMENSIONS 5 DIMENSIONS 12			
						LP9-12X12 RP4-5X6	2	∞	+ + + + + + + + + + + + + + + + + + + +		STR/MOD DESCR	GAR,1.0 DET DI PORCH, COVERD DI PORCH, ENCLSD DI PATIO, BRICK DI			
NOI	SDON PL	DESCRIPTION DATA CAPE 0110-ONE FAMILY	4GE	CENTRAL 01L 1 SEMI-MODERN 1.5	SEMI-MODERN 3 6	4GE									
PROPERTY LOCATION	14 HUNTINGDON	STATE CAPE STATE CAPE WE CODE 0110-				TYPE FIREPLACE— INTERIOR COND + AVERAGE BASHT GAR OPEN- DEMAND VEXTO	CLASS #ODIFIER- 1.05 FIRST STORY - 684 FIN HAIF	SEC STORY - 498 ADD STORY - 11N OVGAR - 1		UNFN FULL 1182 SFLA 1182 RGN + RCNLD	NOTES				

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	est*	_	1989 1-1	-3	TOTAL					3	
PARCEL 10 ZONE CENSUS TRACT 123-783-12 1 16	Constant Mouth		NAME 1 * HARDT WILLIAM B NAME 2 ** ANDERS ** 18 HINTINGDON PLACE			NAME VOL. PAGE DATE SALE PRICE VALID DEED IYP HARDT WILLIAM B 3028 2 11/05/1993 63000 Y W AUTERI PASQUALE P & JOANN 1424 110 12/04/1979 N W	LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE FRNT&DEPTH 50.00 120.00 1-1 400.00 20700 14490	101AL 20700 3150 s150 s150	11XED DVL 4 -0CAL -1GHT -1GHT -1SS THAN 30' -1KENGE -1	RESIDENTIAL 1- RESIDENTIAL 1- 1-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 1-3 DWELLINGS 1-4 OUTBUILDINGS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-6 WETLAND 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-8 WETLAND 1-9 OUTBUILDINGS 1-9 WETLANDS 1-9 OUTBUILDINGS 1-9 WETLANDS 1-9 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-2 CONDOMINIUMS 1-3 CONDOMINIUMS 1-5 CONDOMINIUMS 1-7 CONDOMINIUMS 1-8 WETLANDS 1-9 WETLANDS 1-9 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-2 WETLANDS 1-3 WETLANDS 1-4 WETLANDS 1-5 CONDOMINIUMS 1-7 WETLANDS 1-7 WETLANDS 1-8 WITHANDS 1-9 WETLANDS 1-9 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-1 WETLANDS 1-2 WETLANDS 1-3 WETLANDS 1-4 WETLANDS 1-5 WETLANDS 1-7 WETLANDS

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PROPERTY LOCATION	18 HUNTINGDON PL		FUEL TYPE . 01L KITCHENS 1 KITCHENS 1 TOTAL BATHS . 1.5 BATH GUALITY . SEMI-MODERN BEDROOMS . 2 ROOMS . 6	IYPE FIREPLACE: INTERIOR COND: AVERAGE BASHT GAR OPEN: REMODEL YEAR: CLASS MODIFIER: 1.10 FIRST STORY 759	FIN TOR 513 SEC STORY 513 ADD STORY FIN ØVGAR 513 BASMT AREA 513	OCH HALF TOR FULL	NOTES			

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HUNTINGDON PL 143-783-13			5050001 OF	F 01	1
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NAME 1 + PHILLIPS JOAN C	YEAR	CLASS	UNITS	FULL VALUE	ASSESSED
NAME 2 ADDRESS 22 HUNTINGDON PL ADDRESS WATERBURY CT ADDRESS	1989	1-1	99.6	4714 11742 200	3300 8220 140
21P - 06708 OWNER HISTORY		TOTAL		16656	11660
NAME VOL PAGE DATE SALE PRICE VALID DEED TYP PHILLIPS JOAN C 4073 171 12/11/2000 N Q WEYMER WILLIAM H & JOAN C 3948 30 03/20/2000 N Q TOMLIN VANESSA & JOAN C 3948 17 03/20/2000 N Q WEYMER WILLIAM N & JOAN C 3948 17 05/13/1992 41200 Y Q REDERAL HOME LOAN MORTGAG 2851 115 05/13/1992 41200 Y Q ROSADO WILSON & NAIDO 1548 138 02/14/1995 49000 N W PERKINS GERALD S & JESSIE 1610 315 04/19/1983 37000 N W BARNEY ALCIBETH L 1264 68 04/12/1977 N O					
LAND TYPE LAND CODE HEASURE 1 MEASURE Z USE CODE UNIT PRICE FULL VALUE ASSESSED PRIME SITE FRUTEDEPTH 80.00 120.00 1-1 400.00 23400 16380					
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NBHD TYPE			COST CALCULATIONS	JLAT TONS	
RESIDENTIAL 1- 1-1 LAND 1-6 MOBILE MFG HOMES 4-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 1-3 DWELLINGS 1-8 MIXED - USE 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-9 CONDOMINIUMS 1-1 LAND 6-1 FARM 1-1 LAND 6-1 FARM 1-2 EXCESS ACREAGE 1-7 CONDOMINIUMS 1-2 CONDOMINIUMS 1-3 CONDOMINIUMS 1-4 CONTROLLINGS 1-5 CONDOMINIUMS 1-7 CONDOMINIUMS 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-9 CONTROLLINGS 1-9 CONTROLLINGS 1-1 LAND 6-1 FARM 1-1 LAND 6-1 FARM 1-2 EXCESS ACREAGE 1-7 CONDOMINIUMS 1-2 EXCESS ACREAGE 1-7 CONDOMINIUMS 1-3 CONDOMINIUMS 1-4 CONTROLLINGS 1-5 CONTROLLINGS 1-7 CONTROLLING					

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NAME 1 * GRIMSLEY EDNA P	YEAR	CLASS	UNITS	FULL VALUE	ASSESSED
ADDRESS - 17 HUNTINGDON PL ADDRESS - WATERBURY CT	1989	1-1 1-3 1-4	1.00	4500 12785 100	3150 8950 70
ZIP = 06708 OWNER HISTORY		TOTAL		17385	12170
NAME SALE PRICE VALID DEED TYP					
GRIMSLEY EDNA P 1581 290 10/20/1982 N Q GRIMSLEY ADDIES D 1408 174 09/14/1979 29900 N W					
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LAND DESCRIPTION DATA LAND ACCEPTED A MERCINE 2 HER FORE HALL EDITE THE VALUE ASSESSED					
E FRNT&DEPTH 50.00 120.00 1-1 400.00 20700					
TOTAL 20700 3150					
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RESIDENTIAL 1- RESIDENTIAL 1- 1-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 1-3 DWELLINGS 1-4 OUTBUILDINGS 1-5 CONDOMINIUMS 1-5 CONDOMINIUMS 1-6 OUTBUILDINGS 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-7 CONDOMINIUMS 1-8 MIXED - USE 1-9 OUTBUILDINGS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-1 CONDOMINIUMS 1-2 CONDOMINIUMS 1-3 CONDOMINIUMS 1-4 CONDOMINIUMS 1-5 CONDOMINIUMS 1-7 CON					

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	14	SKETCH	+ - + * * * * * * * * * * * * * * * * * *	C 1140	DIM 1 DIM 2 QTY CLSS. COND 10 18 1 C 3 7 18 1 C 3 5 6 1 C 3
PARCEL ID	143-783-14	15	RP4-5X6 5X6 ++ RP2-7X18	TOTOTAL	STR/MOD DESCR MEASURE DI GAR, 1.0 DET DIMENSIONS PORCH, COVERD DIMENSIONS PORCH, ENCLSD DIMENSIONS
PROPERTY LOCATION	17 HUNTINGDON PL	BUILDING DESCRIPTION DATA	STYLE COLONIAL USE CODE 0110-ONE FAMILY # OF FAMILIES 0110-ONE FAMILY STORIES 2.0 TR BUILT 1916 EFF YR BUILT		WOTES

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PRG LOCATION PARCEL 1D ZONE CENS 11 HUNTINGDON PL 143-783-15 1G .	CENSUS TRACT	NBHDSITE 5050001 OF ASSESSMENT 19	NBHDSITE CARD 5050001 OF 01 ASSESSMENT INFORMATION	
NAME 1 - ZUTA ZINIJE NAME 2 - % SEVEN BROTHERS RESTAURANT ADDRESS - 19 CHERRY ST	YEAR CL.	CLASS UNITS 1-1 1.00	FULL VALUE	ASSESSED 3150 7400
ADDRESS - WATERBURY CT ADDRESS - 2.1P - 06702 CWNER HISTORY		. <u></u>		170
VOL PAGE DATE SALE PRICE VALID DEED TYP				
ZUTA ZINIJE ZUTA ZINIJE 8. VULLNET ZHU 1576 32 09/13/1982 26000 N TURNER EST JANET R 1565 106 07/14/1982 N S TURNER JANET R 695 359 01/01/1953 N Q	<u>, </u>			
LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED				
SITE FRNT&DEPTH 50.00 120.00 1-1 400.00 20700 14490		+		
TOTAL 20700 3150 SITE NOTES				
11XED DVL 8 LOCAL LIGHT LIGHT LIGHT LIGHT LESS THAN 30' LESS LVEN FES -UBLIC 3AS/ELEC TYPICAL TYPICAL TYPICAL TYPICAL TYPICAL		T\$002	COST CALCULATIONS	
RESIDENTIAL 1- 1-6 MOBILE MFG HOMES 4-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-2 BUILDINGS 5-3 INDUSTRIAL LAND 6-2 FOREST 1-3 DWELLINGS 1-8 MIXED - USE 4-3 OUTBUILDINGS 5-4 WETLAND 8-4 OUTBUILDINGS 1-5 CONDOMINIUMS 6-5 WHEN SUPPLY 5-5 OUTBUILDINGS 6-5 WATER SUPPLY		,		

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	1989	1-1	1.00	4500 12742 100	3150 8920 70
21P · 06708 CWNER HISTORY		TOTAL		17342	12140
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LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED			-		• .
PRIME SITE FRNT&DEPTH 50.00 120.00 1-1 400.00 20700 14490					
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	·		IMPROVEMENT: DATA	QTY C	
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1			2.0/B 3 + 19 19 19	STR/MOD DESCR MEASURE	
	PROPERTY LOCATION 7 HINTINGDON PI	EDING	STYLE USE CODE USE CODE # OF FAMILIES - STORIES STORIES STORIES STORIES STORIES PARTIAL CONST - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR COND - 1920 EXTERIOR - 192	NOTES	

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PRO LOCATION PARCEL 1D ZONE 1 HUNTINGDON PL 143-783-17 1G CURRENT OWNER 16 16	NAME 1 - BROUSSEAU GEORGE D	2 SS - 1 HUNTINGDON PL SS - WATERBURY CT SS - - 06708	OWNER HISTORY	BROUSSEAU GEORGE D 670 20 01/01/1953 8000 N	. LAND DESCRIPTION DATA	LAND TYPE LAND CODE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE FRNT&DEPTH 50.00 120.00 1-1 400.00 20700 144	TOTAL 20700 3 SITE NOTES	NBKD TYPE - MIXED	SET BACK SET BACK ATTON R	RESIDENTIAL 1- PROPERTY CLASSIFICATION CODES 1-1 LAND 1-6 MOBILE MFG HOMES 4-1 LAND 1-2 EXCESS ACREAGE 1-7 CONDO OPTIONS 4-2 BUILDINGS 5-3 INDUSTRIAL LAND 6-3 OPEN SPACE 1-3 DWELLINGS 1-8 MIXED - USE 4-3 OUTBUILDINGS 5-3 INDUSTRIAL LAND 6-3 OPEN SPACE 1-4 OUTBUILDINGS 6-5 WATER SUPPLY 1-5 CONDOMINIUMS 6-5 WATER SUPPLY

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PARCEL 10	143-783-17	SKETCH	9 171.0 ++ 23 1 14 14 14 14 14 14 14		STR/MOD DESCR MEASURE DIM 1 DIM 2	DIMENSIONS 10 BIMENSIONS 8
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q	2	INFORMATION	FULL VALUE	85000 481300	566300		535444	535444 .				PUBLIC UTILITY 4, 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5-5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
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RACT			YEAR	1994			1992					PROPERTY CL COMMERCIAL 2-1 LAND(EX 2-3 APARTHE 2-4 CONDONTE 2-5 OUTBUIL 2-5 OUTBUIL 2-6 LAND (A INDUSTRIAL 3-1 LAND 3-3 IMPROVE
DONDEDTY TION ASSRS MAP - 101	EAST AURORA ST 143-783-21	CURRENT OWNER		NAME 2 * ADORESS * 839A HERITAGE VILLAGE ADDRESS * SOUTHBURY CT ADDRESS * OUTHBURY CT 21P * 06488		NAME VOIL PAGE DATE SALE PRICE VALID DEED 17P STEIN HAROLD 1317 98 04/19/1978 N N W STEIN HAROLD & TORRINGT 0504 0264 00/00/0000 N W			LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 2.52 3-1 42000.00 105840 74088	SITE STEE DESTRABILITY -	ROAD - LOCAL SENER - YES LAMDSCAPING - TYPICAL TRAFFIC - MEDIUM WATER - PUBLIC DRIVEWAY BLDG SET BACK- VIEW - COMPARED - COMPARED - COMPARED - PUBLIC NAJOR USE - LIGHT IND PROCESSING PROPERTY CLASS MED MANUFAC/ASSEMBLY BUILDING PERMITS - DATE VALUE DESCRIPTION C.C. DATE COMP DATE

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;	VALUE KEAS FIN	AREA C 1976 AREA C 1950 AREA C 1950 AREA C 1976 AREA C 1976 AREA C 1942		DESCRIPTION		DOOR, OVERHD MTL	PAVNG, ASPHLT SHED, CONC BLK LOAD DOCK, STL/C	SHED, ALUNINM
	UNIT NO.T	C SQ FT G SQ FT C SQ FT SQ FT	0101 1950 LIGHT IND PROCESSING LIGHT IND PROCESSING LIGHT IND PROCESSING LIGHT IND PROCESSING NORMAL FLAT METAL 111 90 000 PREFAB METAL 1142 20 BRK/CB VENEER 120 91653	. 1				
	USED DESCRIPTION	LIGHT IND PROC, OFFIC SQ LIGHT IND PROCESSING SQ LIGHT IND PROC, STOR SQ LIGHT IND PROC, OFFIC SQ LIGHT IND PROC, BSMT SQ	BUILDING/SECT 0101 EEF YR BUILT 1950 BUILT AS 1 1950 BUILT AS 1 11GHT 1 USED AS 1 11					

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	80		CLASS	3-2	TOTAL		1-0	TOTAL			PROPERTY CLASSIFICATION C COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDONINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
TRACT			YEAR	1994			1992				COMME COMME 2-1 L 2-2 B 2-4 C 2-5 C 2-5 C 1 NDUS 3-1 L 3-3 I
PROPERTY TION ASSRS MAP - LOT 20NE CENSUS TRACT	EAST AURORA ST 143-783-21	CURRENT OWNER	* STEIN HAROLD	NAME 2 ADDRESS 839A HERITAGE VILLAGE ADDRESS SOUTHBURY CT ADDRESS ADDRESS 20488	CWNER HISTORY	NAME VOL. PAGE DATE SALE PRICE VALID DEED TYP STEIN HAROLD 1317 98 04/19/1978 N W STEIN HAROLD & TORRINGT 0504 0264 00/00/0000 N W			LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 2.52 3-1 42000.00 105840 74088	HEDIUM HATER PUBLIC DRIVENAT DRILITIES PUBLIC DRIVENAT CLASS COMPARED PUBLIC DRIVENAT CLASS COMPARED DATE VALUE DESCRIPTION C.O.

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	FLOOR LIGHT CONSTR PCT TYP	CONC			YR BLT USE CD R	
143-783-21	INT FUNC INT COND UTIL FIN	FAIR .75 100			SEE SKETCH CARD IMPROVEMENT DATA DIM 2 QIY CLSS COND	
ASSRS MAP - LOT	INTERIOR DESCRIPTION LOCATION HT FROM TO PSIY AREA	01 01 10 5132	SKETCH	+	SEE SKET	
EAST AURORA ST	YEAR FIN	c 1972			RIPTION	
150	UNIT NO.	SQ FT	TION DATA	0102 1972 LIGHT IND PROCESSING AVERAGE NORMAL FLAT BUILT UP 111 1.00 CONC BLOCK 224 10		
PROPERTY LOCATION	USED AS DESCRIPTION	LIGHT IND PROC,OFFIC	BUILDING DESCRIPTION DATA	BULLDING/SECT 0102 EFF YR BULLT 1972 BULLT AS 1016H USED AS 1016H USED AS 1016H EXTERIOR COND AVER FUNCT UTILITY NORM ROOF TYPE FLAT ROOF TYPE 111 GRADE MOD 1.00 SECTION PER IM YEAR BULLT CONC EXTAL MAT CONC EXTAL MAT 224 EXTALE MAT 10 EXTRACE MAT 10 EXTRACE MAT 5132	PARTIAL CONST. 224 NOTES	

150 150	NUMBER DATE VALUE DESCRIPTION C.O. DATE COMP. DATE COMP. DATE C.O. DATE COMP. DATE C.O. DATE
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143-783-21	FUNC INT FLOOR LIGHT TYPE PCT UTIL FIN CONSTR PCT TYPE PCT	.75 CONC HOT		I CARD INPROVEMENT DATA TOTAL
ST ASSRS MAP - LOT	YEAR LOCATION HT AREA CON	7371 FAIR	SKETCH	SEE SKETCH WEASINE DIM 1 DIM 2
PROPERTY LOCATION 150 EAST AURORA	UNIT NO. VALUE TYPE UNIT UNIT	TOR SQ FT AREA	BUILDING DESCRIPTION DATA	### ### ### ### ### ### ### ### ### ##

II DAIA REMESTE CABB I SIDE	8000001	ASSESSMENT INFORMATION	YEAR CLASS UNITS FULL VALUE ASSESSED	1994 3-1 1.00 85000 59500 3-2 1.00 481300 336910	T01AL 566300 396410		1992 1-0 535444 374811	TOTAL 535444 374811			PROPERTY CLASSIFICATION CODES COMMERCIAL 2-
CILY OF WAIEKBURY KEAL PROPERTY	MIRORA ST 143-783-21 - 16	CURRENT OWNER		ADDRESS + 839A HERITAGE VILLAGE ADDRESS + SOUTHBURY CT ADDRESS - SOUTHBURY CT ADDRESS - SOUTHBURY CT		NAME VOIL PAGE DATE SALE PRICE VALID DEED 1YP STEIN HAROLD 1317 98 04/19/1978 N W STEIN HAROLD & TORRINGT 0504 0264 00/00/0000 N W			LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE 2.52 3-1	BACK MEDIUM KATER PUBLIC DRIVENAY BACK DILLDING PERMITS BUILDING PERMITS DATE VALUE DESCRIPTION C.O.

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NOFERIT DAIR	- 17	IC INT FLOOR L FIN CONSTR	CONC		ENT DATA S COMD YR BLT
74	17-587-541	JN INT FUNC AREA COND UTIL	1021 FAIR .75		SEE SKETCH CARD IMPROVEMENT DATA DIM 2 QITY CLISS COND
)	ASSKS MAP - LUI	INTERIOR DESCRIPTION LOCATION HT FROM TO PSTY A	01 01 12	SKETCH	MEASURE DIM 1
	EAST AURORA ST	VALUE YEAR ! UNIT CLASS FIN !	1960		DESCRIPTION
	150 EAS	UNIT NG, VA TYPE UNIT UN	SQ FT AR	DATA	D PROCESSING
	PROPERTY LOCATION	USED AS DESCRIPTION	LIGHT IND PROC, STOR	BUILDING DESCRIPTION DATA	BUILDING/SECT

	KBHDS11E CARD	8000002	ASSESSMENT INFORMATION	CLASS UNITS FULL VALUE ASSESSED	3-1 1.00 85000 59500 3-2 1.00 481300 336910	TOTAL 566300 396410			1-0 535444 374811	TOTAL 535444 374811			PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS)
CITY OF WATERBURY R	TY LION ASSRS MAP - LOT	150 EAST AURORA ST 143-783-21 1G	CURRENT CANER NAME OF BUSINESS	NAME T + STEIN HAROLD	RESS RESS	61F - U040S GUNER HISTORY	NAME VOL PAGE DATE SALE PRICE VALID DEED IYP	STEIN HAROLD & TORRINGT 0504 0264 00/00/0000	1992		LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	TOTAL DESIRABILITY -	HEDIUM HATER PUBLIC DRIVEWAY TOTAL HATER PUBLIC DRIVEWAY TOTAL HATER DAS/ELEC HAJOR USE COMPANDERING PROPERTY CLASS MED MANUFAC/ASSEMBLY DATE VALUE DESCRIPTION C.O. DATE COMP DATE

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	HEAT TYPE PCT			RCN PCT GD 616 35	
TY DATA	T FLOOR LIGHT N CONSTR PCT		+	# YR BLT USE CD	TOTAL
KEAL FROFEKTY	INT FUNC INT	52. 1	SEE SKETCH CARD	IMPROVEMENT DATA OIT CLSS COND C 3	<u> </u>
X .	INTERIOR DESCRIPTION LOCATION HT FROM TO PSIT AREA	1 10 2562	SKETCH	DIM 1 DIM 2	
CTIX	YEAR S FIN	1976		DESCRIPTION MEASURE. DOOR, OVERHD COM SQUARE FE	
	NO. VALUE CLASS	AREA	ESSING	DESCRIPTION DOOR, OVERHD	
	UNIT	FF1C	### BUILD ING DESCRIPTION DATA ### BUILT AS		
	USED DESCRIPTION	LIGHT IND PROC,OFFIC	BUILDING DESCR BUILDING/SECT- EFF YR BUILT - BUILT AS USED AS EXTERIOR COMD- FUNCT UTILITY- ROOF TYPE - ROOF TYPE - ROOF MATERIAL GRADE MOD SECTION PERIM- SECTION PERIM- YEAR BUILT - EXTALL MAT - EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT HT EXT REA- PARTIAL CONST- PARTIAL CONST-		

SIDE	-		ASSESSED	11260 1220 12130	24610	28800 1220 12130	42150				Y 4- NGS PL L L NGS
Q		INFORMATION	FULL VALUE	16080 1742 17328	35150	41142 1742 17328	60212	,			PUBLIC UTILITY 4-4-1 LAND 4-1 LAND 4-2 BUILDINGS 4-3 CUTBUILDINGS VACANT LAND 5-5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
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	80		CLASS	2-5	TOTAL	2-1 2-5 2-2	TOTAL				PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOWINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
S TRACT			YEAR	1999	1	1989					
PRODERTY TION ASSRS MAP - LOT ZONE CENSUS TRACT	HUNTINGDON AVE 143-783-111	CURRENT CHINER HAME OF BUSINESS	NAME 1 HALPERIN REAL ESTATE LLC 0		21P * 06708 Omner history	NAME VOI PAGE DATE SALE PRICE VALID BEED TYP HALPERIN REAL ESTATE LLC 3354 337 06/19/1996 575000 N W PFALTZ & BAUER INC 164 06/27/1984 ASDRO-		LAND TYPE ACREAGE MEASURE 1 USE CODE UNIT PRICE FULL VALUE ASSESSED	2-1	SITE DESIRABILITY -	ROAD LOCAL SENER - YES LANDSCAPING - TYPICAL TRAFFIC - MEDIUM WATER - PUBLIC DRIVEWY - PUBLIC DRIVEWY - PUBLIC DRIVEWY - PROPERTY CLASS SM RETAIL-10000 SQFT BLDG SET BACK- COMPARED - CAS/ELEC MAJOR USE - MULTI USE-MULTI OCCU PROPERTY CLASS SM RETAIL-10000 SQFT BUILDING PERMITS - DATE VALUE DESCRIPTION C.O. DATE COMP DATE

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SIDE 2	LIGHT HEAT TYPE PCT TYPE PCT	UNIT HOT NONE		USE CD RCW PGT GD COST MOD RCNLD ASSESSED	3-3 4788 35 1676 1173 3-2 875 30 . 263 184 3-3 100	1357
143-783-111	INT FUNC INT FLOOR COND UTIL FIN CONSTR	FAIR 1.00 100 CONC FAIR 1.00 100 CONC FAIR 1.00 CONC	4	IMPROVEMENT DATA YR BLT	. 0 2 1970 . 0 2 1948 D 1 1948	TOTAL
HUNTINGDON AVE ASSRS. MAP - LOT	TERR LOCATION HT FIN FROM TO PSIT AREA	D 1948 01 01 10 1380 D 1948 01 01 10 1200 D 1948 01 01 10 1934	FCZ 1386 S/F 54 ++1 + +1 + +1 + +1 + +1 + +1 + +1 +	DESCRIPTION MEASURE DIM 1 DIM 2	PAVNG,ASPHLT SQUARE FE 4000 CANPY,W/SLAB SQUARE FE 95 SHED,ALUNINM SQUARE FE 1386	
PROPERTY LOCATION 348 H	UNIT NO.	I USE & OCC, BSMT SQ FT USE & OCC, OFFIC SQ FT USE & OCC, STORA SQ FT	BULLDING DESCRIPTION DATA BULLDING/SECT 0101 EFF TR BUILT 45 USEB AS		,	

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# 1 justile	88 -	CURRENT CANER	NAME 1 + HALPERIN REAL ESTATE LLC NAME 2 + T72 FAST AIRORA ST	ADDRESS - WATERBURY CT ADDRESS - 106708	NAME VOL PAGE DATE SALE PRICE VALID DEED IYP	HALPERIN REAL ESTATE LLC 3354 337 06/19/1996 575000 N W PFALTZ & BAUER INC 1697 164 06/27/1984 700000 N W PRISTOL FLOWED GASKET CO 940 323 01/01/1969 N W		LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.92 3-1 42000.00 164640 115248	TOTAL DESIRABILITY ·	- LOCAL - MEDIUM BACK- BUILDING P DATE

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	TYPE A/C	NON NON CEN		PCT GD CDST MOD 7 30	
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	HEAT	UNIT UNIT HOT		23257	
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CITY OF WATERBURY REAL	TY LION ASSRS MAP + LOT	75 EAST AURORA ST 14.3-707-192	CURRENT CHANER HAME OF BUSINESS	NAME 1 - BOAS ANDREW M & CECELIA A NAME 2 - BERNIER AS TRUSTEES ADDRESS - Wolvey, BARTHOLW & MILLER ADDRESS - GOO THIRD AVE ANDRESS - GOO THIRD AVE		NAME VOL PAGE DATE SALE PRICE VALIO DEED IYP	BOAS ANDREW M & CECELIA A 4019 100 08/22/2000 N V BERNIER EDMONDE F 1138 77 01/01/1974 125000 N W		LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.03 3-1 42000.00 127260 89082	SITE	NUMBER DATE COMP DATE

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PARCEL 1D	143-777-5						32	1.7/8	13 ++ ++ +			STR/MOD DESCR MEASURE	PORCH, ENCLSD DIMENSIONS PORCH, ENCLSD DIMENSIONS			
PROPERTY LOCATION	447 HUNTINGDON AVE	BUILDING DESCRIPTION DATA	STYLE CAPE USE CODE - 0110-ONE FAMILY	STORIES	PARTIAL CONST - EXTERIOR COND - AVERAGE EXTWAL MAT COMPOSIT HEAT TYPE CENTRAL FUEL TYPE 01L					HALF TOR FULL	- E	NOTES				

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ZONE CENSIS TRACT	ر انق	NAME OF BUSINESS	GEM CONSTRUCTION			SALE PRICE VALID DEED TYP	1999 330000 Y W 1982 12000 N W 1981 N X 1979 N H	UNIT PRICE FULL VALUE ASSESSED	42000,00 55440 38808		ss C
TTTO	AVE	RRENT CANER	ATES LLC		OLINER HISTORY	VOL PAGE DATE	3875 49 10/07/1999 1544 104 02/26/1982 1498 124 04/07/1981 1426 245 12/17/1979	LAND DESCRIPTION DATA E MEASURE 1 NEASURE 2 USE CODE	1.32 2-1	SITE ELEVATION **	DING P
noont of 1100	_ _		NAME 1 - I M E ASSOCIATES	NAME 2 - ADDRESS - 85 RICHARD RD ADDRESS - WOLCOTT CT	ADDRESS - 21P - 06716 04	NAME	I M E ASSOCIATES LLC LUKOS RITA TRUSTEE COLONIAL BANK MILES FOUNDATION INC	LAND TYPE ACREAGE	PRIME SITE ACREAGE	SI SI NDUSTRIAL	SET BACK- MEDIUM SET BACK-

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2						ASSESSED	3487 291 242 45	4067
SIDE	SPRINK TYPE PCT	NON				RCNLD AS	4982 416 347 65	587
	AVC TYPE PCT	CEN			·	PCT GD COST MOD		
	HEAT PCT TY	2				PCT GD	11072 45 756 55 630 55 433 15	
	TYPE	HOT UNIT				D RCN		
DATA	FLOOR LIGHT CONSTR PCT	CONC			+ ~ ~ ~ ~ ~ ~	BLT USE CD	1976 3-3 1982 3-2 1982 3-2 1982 3-3	TOTAL
333333	INT FL	100				DATA YR BLT	, , , ,	10
AL FROFERIE 143-863-2	FUNC	1.00				IMPROVEMENT OTY CLSS C	ပပပပ	
2	INT A COND	2000 AVERA 6268 AVERA			1.0	DIM Z OTY	9	
ASSRS MAP - LOT	SCRIPTION HT SSTY AREA	12 20 12 62	SKETCH			DIM 1 D	9250 120 100 60	
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HUNTINGDON AVE	VALUE UNIT CLASS	AREA C AREA C				DESCRIPTION	PAVNG, ASPHLT DOOR, OVERHD MTL DOOR, OVERHD MTL FENCE, CHN LK	
	NO. UNIT	AR		FACI FACI				
327	UNIT	SQ FT SQ FT	W DATA	0101 1982 STRGE, WARE, DIST FACI STRGE, WARE, DIST FACI AVERAGE NORMAL GABLE SHINGLES 1111 1.00 CONC BLOCK 408 408 12 12 8268				
LOCATION	IPTION	STORAGE OFFICE STRGE, WARE, DIST FACI	BUILDING DESCRIPTION DATA	1 (2011)				, ,
PROPERTY LOCATION	USED AS DESCRIPTION	STORAGE OF STRGE, WARE	BUILDING	BUILDING/SECT- EFF YR BUILT BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY- KNOF MATERIAL- GRADE MOD SECTION PERIM- YEAR BUILT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT EXTRACE MAT FCMALL LINET FCMALL				

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0		INFORMATION	FULL VALUE	26043	32043	26043	32043	6000 21542 27542		6000 21542 200	27742	6000 21542 200 27742	ES 4-1 LAND 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
TE CARD	_	ASSESSMENT 1	1.00	1.00		.00		1.00		1.00		000.	APT.BLDS)
WBHDS1TE	505	A!	CLASS 2-6	2-3	101 AL	- 	TOTAL	1-1 1-3 TOTAL		1-1	TOTAL	1-1 1-3 1-4 TOTAL	PROPERTY CLASSIFICATION C COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
RACT			YEAR 1998		7004	9 6 6		1994		1992		1989	PROPERTY CL COMMERCIAL 2-1 LAND(E) 2-3 APARTH 2-4 CONDOMN 2-5 OUTBUIL 2-6 LAND (A) 3-1 LAND 3-2 BUILDIN 3-3 IMPROVE
PROPERTY TION ASSRS MAP + LOT ZONE CENSUS TRACT	HUNTINGDON AVE 143-863-3	CURRENT OWNER		ADDRESS + J.S. WILLIAM SI ADDRESS + WATERTOWN CT ADDRESS - C6795	OWNER HISTORY	NAME VOL. PAGE DAGOSTINO MARIO & MICHAEL A 3008 175 09/14/1993 57000 Y W GEM CONSTRUCTION CO INC 2486 141 06/15/1989 150000 Y W AUGER LEDGER & CLEMENCE 789 30 01/01/1960 N Q			LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE FRNT&DEPTH 92.50 134.00 1-1		SITÉ ELEVATION - EVEN DESIRABILITY -	BACK MORE THAN 60' AVERAGE AVERAGE BUILDING P DATE

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KII DAIA	INT FLOOR LIGHT FIN CONSTR PCT 1		YR BLT US	3 1921 1-3 3 1940 1-3 3 1970 1-3	TOTAL
143-863-3	EA COND UTIL		1MPROVEMENT DA OTY CLSS CON	24 12 15 C	
ASSRS MAP - LOT	INTERIOR DESCRIPTION HI FROM TO PSIT	SKETCH	DIM	DIMENSION 8 DIMENSION 9 DIMENSION 10	
HUNTINGDON AVE	UNIT UNIT CLASS FIN		UESCRIPTION	PORCH, COVERD PORCH, COVERD PAVIG, CONCR PATIO, BRICK	
PROPERTY LOCATION 345	UNIT	BUILDING DESCRIPTION DATA ILLDING/SECT+ 0101 ILL AS - 17REE FAMILY ED AS - 1 THREE FAMILY ED AS - 1 THREE FAMILY CONVERTED APTS TERIOR COMD- AVERAGE NORMAL OF TYPE - GABLE OF TYPE - GABLE OF TYPE - GABLE OF TYPE - GABLE OF TYPE - 111 AND HOLD - 1.00 CTION PERIM- 1921 MC OSS MULT- 000 TWALL LINFT - 1921 WL LINFT - 17FALE MAT - 47ALL CONST. CT TOT AREA- AREA- AND - 47ALL CONST. AND AND AND - 47ALL CONST.			
PROPERTY	USED AS DESCRIPTION	BUILDING DESCE BUILDING/SECT- EFF IN BUILT - BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY- ROOF MATERIAL- GRADE MOD SECTION PERIM- YEAR BUILT EXTALL MAT EXTALL MAT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL LINFT EXTALL CONST RECT TOT AREA- PARTIAL CONST			·

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	PARC	143-8		N & CARMELA	Er.	CANER HISTORY	VOL. PAUE 1745 3 1599 338 637 161	USE CODE	TOTAL		LASSIFICATION CODI PUBLIC UTILITY 4- 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS

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14.4	SIDE 2			PCT GD COST MOD RCNLD ASSESSED	
			SFLA :1498	QTY CLSS COND YR BLT USE CD RCN	1 C 3 1937 1-3 1 C 3 1937 1-3
We lighted	FARLEL 1D 143-863-4	SKETCH	RP4-8X12	STR/MOD DESCR MEASURE DIM 1 DIM 2	PORCH, ENCLSD DIMENSIONS 8 12 PORCH, ENCLSD DIMENSIONS 4 6
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CITY OF WATERBORY R	PROPERTY ION ASSRS MAP - LOT	EAST AURORA ST 143-864-18	CURRENT DANER NAME OF BUSINESS	NAME 1 ** MACDERMID INCORPORATED MACDERMID INC	w w w	21P - 06702 OWNER HISTORY	HAME VALID DEED TYP MACDERMID INCORPORATED 1297 0286 00/00/0000	LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE 3.43 3-1 42000.00 144060	SITE STREETS TYPE TYPE TYPICAL	HUDOLKIAL ELETRINON LOCAL SEKER MATER MEDIUM WATER UTILITIES - GAS/ELEC MAJOR USE COMPARED - PROPERTY CLASS BUILDING PERMITS DATE VALUE DESCRIPTION C.O

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	PCT 1						
	A/C TYPE	CEN CEN NON NON		GD COST MOD			
	5			PCT CE	6 35 4 35 0 35 0 35		
	HEAT TYPE P	HOT HOT HOT HOT		RCN	896 1344 840 1400	12329 8379	
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ALEADOR!	CRIPTION HT STY AR		SKETCH CH	-	64 192 120 100	000 000	
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	USED DESCRIPTION	<u> </u>					
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NBHDS1TE CARD	_	ASSESSMENT INFORMATION	CLASS UNITS FUR	3-2 1.00	TOTAL					SIFICATION CODES PUBL PT APT.BLDS) 4-1 4-2 S 4-3 NGS VACA BUILDINGS) 5-1 5-3 NTS NTS
CENSUS TRACT			YEAR	1989	. 10				8888	
PROPERTY (10N ASSRS MAP - LOT ZONE CENSUS	EAST AURORA ST 144-707-1	CURRENT CANER	NAME T * RYDER TRUCK RENTAL INC	* P O BOX 205719 * MIAMI FL	Z1P + 33102 CMNER HISTORY	NAME SALE PRICE VALID DEED TYP RYDER TRUCK RENTAL INC 0543 0047 00/00/0000	LAND TYPE ACREAGE MEASURE \$ USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.98 3-1 42000.00 167160 117012	TOTAL	BACK. BACK. BACK. BACK. BACK. BACK. BACK. BATER BASKLEC COMPARED BUILDING PERMITS DATE VALUE DESCRIPTION

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j	HEAT TYPE P	HOT UNIT		RCN F 5880 1411 1694 93701	
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ASSRS MAP - LOT	SCRIPTION HT PSTY A	47	SKETCH CH	140 140 140 22 78280	
ASSR	INTERIOR DESCR LOCATION HI FROM TO PST	100		2222	
 				MEASURE SQUARE SQUARE SQUARE SQUARE	
ST	YEAR	1980		DESCRIPTION DOOR, OVERHD RES DOOR, OVERHD RES POLE, STEEL FOR PAVNG, ASPHLT	
	CLASS	ပပ		DESCRIPTION DOOR, OVERHD DOOR, OVERHD POLE, STEEL PAVNG, ASPHL	
EAST AURORA	VALUE	AREA AREA		DOC DOC	
37	NO. UNIT	. .	1955 1955 MULTI USE-MULTI OCCU MULTI USE-MULTI OCCU AVERAGE NORMAL ARCH. SHINGLES 111 1.00 CONC BLOCK 720 14 18560		
	UNIT	SQ FT SQ FT	DATA OCK		
S		DFF I C	1100 1955 1955 MULTI USE-1 MULTI USE-1 AVERAGE NORMAL ANCH. SHINGLES 111 1.00 000 CONC BLOCK 720 14		
PROPERTY LOCATION	DESCRIPTION	MULT USE & OCC,OFFIC MULTI USE&OCC,GARAGE			
OPERTY	D DESCI	T USE	BUILDING/SECT- EFF YR BUILT - BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY- ROOF TYPE	· ·	
PR	USED	MUL	BUILDI BUILDI EFF YR BUILT USED A EXTERI ROOF M ROOF M ROOF M ROOF M ROOF M SECTIO FUNC FUNC FUNC FUNC FUNC FUNC FUNC FUNC		

SIDE	_		1 VALUE ASSESSED 150000 105000 209400 146580	359400 251580					PUBLIC UTILITY 4- 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
E CARD	_	ASSESSMENT INFORMATION	UNITS FULL VALUE 1.00 150000 1.00 209400	359					PUBL 4-1 4-3 4-3 VACA 5-1 5-2 5-5
S TRACT NBHDS1TE		ASS	YEAR CLASS 1989 3-1 3-2	TOTAL					PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) (INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
PROPERTY TION ASSRS MAP - LOT ZONE CENSUS TRACT	EAST AURORA ST 144-707-2	CURRENT OWNER OF BUSINESS	NAME 1 - BOAS ANDREW M & CELCELIA A NAME 2 - BERNIER AS TRUSTEES ADDININGTON, BARTHOLOW &MILLER ANDRESS - KAS THIRD AVE		NAME VOIL PAGE DATE SALE PRICE VALID DEED TYP BOAS ANDREW M. & CELCELIA A 4019 103 08/22/2000 08/22/2000 N V BERNIER EDMONDE 1263 92 04/05/1977 200000 N W	LAND DESCRIPTION DATA ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE AS	189000	SITE - INDUSTRIAL ELEVATION - DESIRABILITY -	ROAD - LOCAL SEWER : YES LANDSCARING : TYPICAL TRAFFIC - MEDIUM WATER : PUBLIC DRIVEWAY : STRGE, WARE, DIST FACI BLDG SET BACK - COMPARED : GAS/ELEC MAJOR USE : STRGE, WARE, DIST FACI VIEW - GOMPARED : ROPERTY CLASS TRUCK TERMINALS-IND BUILDING PERMITS C.O. DATE COMP. DATE

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SIDE 2	SPRINK TYPE PCT	WET			RCNLD ASSESSED	8618 6032 1913 1339 314 219 1235 864		13/5 9236
	HEAT TYPE PCT TYPE PCT	UNIT NON			RCW PCT GD COST MOD	28728 30 7653 25 896 35 3528 35		
PROFERIT DATA	INT FLOOR LIGHT FIN CONSTR PCT	CONC	< <section #="" 2="" <="" th=""><th></th><th>DATA YR BLT USE CD</th><th>2 1970 3-3 3 1941 3-2 3 1970 3-3 3 1950 3-2</th><th>1970 1970 1987</th><th>TOTAL</th></section>		DATA YR BLT USE CD	2 1970 3-3 3 1941 3-2 3 1970 3-3 3 1950 3-2	1970 1970 1987	TOTAL
144-7	REA CON	13758 FAIR 1.00	5 2 2 1 1 130	ON # 1	IMPROVEMENT DATA DIM 2 OTY CLSS COND	0000	9	
ASSRS MAR - LOT	INTERIOR DESCRIPTION YEAR LOCATION HT FIN FROM TO PSIY A	1941 01 01 15	1.0 100 100 1.0	SECTION	NEASURE DIM 1		SQUARE FE SQUARE FE SQUARE FE	
EAST AURORA ST	NG. VALUE UNIT UNIT CLASS	AREA C 1	FACI		DESCRIPTION	PAVNG, ASPHLT LOAD DOCK, STL/C DOOR, OVERHD COM DOOR, OVERHD RES	FENCE, CHN LK DOOR, OVERHD MTL	
PROPERTY LOCATION 51	UNIT	STRGE, WARE, DIST FACI SQ FT	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT 1946 BUILT AS 1946 BUILT AS STRGE, WARE, DIST USED AS STRGE, WARE, DIST STRGE, WARE, DIST STRGE, WARE, DIST AVERAGE FUNCT UTILITY: NORMAL ROOF WATERIAL GABLE ROOF WATERIAL GONC SECTION PERIM: 110 EXTRAC BUILT 100 EXTRAC BUILT 100 EXTRAC BUILT 100 EXTRAC BY MAT 545 EXTRAC MAT 545 EXTRAC DAY 13758 PARTIAL CONST.					

RACT KBHDSITE CARD SIDE	8000001	ASSESSMENT INFORMATION	YEAR CLASS UNITS HULL VALUE ASSESSED 1989 3-1 1.00 150000 105000 3-2 1.00 209400 146580	TOTAL 359400 251580					PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 4-1 LAND 2-2 BUILDINGS 4-2 BUILDINGS 2-3 APARTMENTS 4-3 OUTBUILDINGS 2-4 CONDOMINIUMS VACANT LAND 5- 2-6 LAND (APT BUILDINGS) 5-1 RESIDENTIAL 3-1 LAND 3-2 BUILDINGS 5-5 OUTBUILDINGS 3-2 BUILDINGS 5-5 OUTBUILDINGS 3-3 IMPROVEMENTS 3-3 IMPROVEMENTS
PROPERTY 10N ASSRS MAP - LOT CALLE CENSUS TRACT	EAST AURORA ST 144-707-2	T OWNER	NAME 1 ** BOAS ANDREW M & CELCELIA A NAME 2 ** BERNIER AS TRUSTEES ADDRESS ** % DUNNINGTON, BATHOLOW &MILLER ADDRESS ** 666 THIRD AVE ADDRESS ** NEW YORK NY	ZIP *: 10017 CWNER HISTORY	NAME DAGE DAGE VALED PRICE VALID DEED TYP BOAS ANDREW M & CELCELIA A 4019 103 08/22/2000 08/22/2000 N V BERNIER EDMONDE 1263 92 04/05/1977 200000 N W	LAND DESCRIPTION DATA LAND 17PE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 4.50 3-1 42000.00 189000 132300	SITE ELEVATION - DESIRABILITY ·	SEWER YES WATER PUBLIC UTILITIES GAS/ELEC COMPARED TE VALUE DESCRIPTION

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	HEAT	TYPE PCT TYPE PCT UNIT NON									1764 65	
FRUFERIX DAIA	FNT FLOOR	UTIL FIN CONSTR PCT.			c # NOTION # 0			LD2 1110 S/F	† 	(333333333	C 3 1987 3-2	TOTAL
KI KEAL	INI	EEA COND	SKETCH		1.0				130	ON # 1	140 2140 214 24	
AO TITO	INTER	CLASS FIN		•			7	· -		741.55 × 710.	DOOR, OVERHO MTL SQUARE FE	
	ON TIMI	TYPE UNIT UNIT	# DATA	0102 1987 STRGE, WARE, DIST FACI STRGE, WARE, DIST FACI AVERAGE	FLAT METAL 11 1.00	UUU PREFAB METAL 204 16	5200 224 38)Q	
	I I SED	STRGE, WARE, DIST FACE	BUILDING DESCRIPTION DATA	1	ROOF TYPE - F ROOF MATERIAL M GRADE MOD - 1 SECTION PERIM- YEAR BUILT - 1	EXTUAL MAT PI EXTUAL MAT PI EXT LINFT - 20 EXT HT - 10	SECT TOT AREA SECT TOT AREA PARTIAL CONST- NOTES					

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	INFORMATION	FULL VALUE	212000 788000	1000000		:				PUBLIC UTILITY 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDING VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDING
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- KAL		YEAR	1989							PROPERTY COMMERCI, 2-1 LAND 2-2 BUILL 2-3 APAR 2-4 COND 2-5 OUTBI 2-6 LAND 1NDUSTRI, 3-1 LAND 3-2 BUILL 3-3 IMPR
ASSRS MAP -: LDT ZONE CENSUS TRACT	STATE NAME OF RESTRESS	THE LEV	ORA ST	OWNER HISTORY ANY DACE DATE SALE PRICE VALID DEED TYD	48 09/26/2000 N 122 11/18/1983 N 311 10/21/1983 N 372 00/00/1946 N		LAND DESCRIPTION DATA ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	7.60 3-1 42000.00 319200 223440	ELEVATION	SEWER HATER HATER UTILITIES - GAS/ELEC COMPARED COMPARED VALUE DESCRIPTION C.O.
	25/ EAST AURURA	NAME 1 + OLIG LTD	NAME 2 + ADDRESS + 237 EAST AURORA ST ADDRESS + WATERBURY CT ADDRESS + 21F + 06708	DAN	OLIG LTD LEA MANUFACTURING CO W G CORPORATION LEA MANUFACTURING CO		LAND TYPE ACREAGE	PRIME SITE ACREAGE	SITE SITE	SET BACK. SET BACK. MSER

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	PERIY	DESCRIPTION	Y MANUF Y MANUF Y MANUF Y MANUF	BUILDING DESCR BUILT AS BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY- ROOF MATERIAL- GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE GRADE FUNC OBS MULT EXTHAL MAT EXTHA					
	PRO	USED	HEAVY HEAVY HEAVY HEAVY	BUILDING/SE BUILDING/SE EFF YR BUILT BUILT AS USED AS EXTERIOR CG FUNCT UTILL ROOF TYPE ROOF TYP					

E CARD	-	ASSESSMENT INFORMATION	UNITS FULL VALUE ASSESSED.	1.00 70000 49000 1.00 135000 94500 1.00 195000 136500	400000 280000										5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
TRACT NEWDS1TE		ASSE	YEAR CLASS	1989 3-1 3-2 3-2	TOTAL							ERTY CLASSIFERCIAL 2-	BUILDINGS APARTMENTS	2-4 CONDOMINIOMS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS)	INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
PROPERTY ION ASSRS MAP - LOT 20NE CENSUS TRACT	EAST AURORA ST 160-707-3		NAME 1 * AREV I LIMITED PARTNERSHIP		** UB/US CWNER HISTORY	NAME VOL PAUE DATE SALE PRICE VALID DEED TYP	AREV I LIMITED PARTNERSHIP 2852 116 05/15/1992 N Q ALBERT BURTON TRUSTEE 958 127 01/01/1970 N O		LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE 2.80	TOTAL	WBHD TYPE + INDUSTRIAL ELEVATION + DESIRABILITY - TYPICAL ROAD + LOCAL SEVER - YES LAMDSCAPING - TYPICAL TRAFFIC - MEDIUM WATER + PUBLIC DRIVEWAY - STRGE, WARE, DIST FACT BLDG SET BACK - GITLITIES + GAS/ELEC MAJOR USE - STRGE, WARE, DIST FACT VIEW - COMPARED - ROADFRIT CLASS LIGHT MANUFAC/ASSEMB	BUILDING PERMITS	NUMBER DATE DESCRIPTION C.O. DATE COMP DATE	

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ST	YEAR S FIN	1945 B 1970 01 1945 01 1970 01		DOOR, OVERHD COM SQUARE PAVNG, ASPHLT SQUARE CANPY, W/SLAB SQUARE	
EAST AURORA	NO. VALUE UNIT UNIT CLASS	AREA C AREA C AREA C AREA C	CON C	DOOR, OVERHD PAVNG, ASPHLT CANPY, W/SLAB	
N 225	UNIT	SQ FT SQ FT SQ FT SQ FT	1PTION DATA 0101 1950 LIGHT MANUFACTURING STREE, WARE, DIST FACI AVERAGE NORMAL FLAT BUILT UP 111 1.00 8RK MAS/PRE CAST CONC 1022 22 45076		
PROPERTY LOCATION	USED AS DESCRIPTION	STORAGE BSMT AREA STORAGE OFFICE STRGE, WARE, DIST FACI STORAGE WAREHOUSE	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT 1950 BUILT AS 11GHT MANUF. USED AS STRCE, WARE, USED AS STRCE, WARE, USED AS STRCE, WARE, COND AVERAGE FUNCT UTILITY NORMAL ROOF TYPE NOOF TYPE 111 GRADE HOD 1100 SECTION PERIM 111 OOU EXTRACE MAT 1022 EXT LINFT 22 EXTRACE MAT 1022 EXT LINFT 22 EXTRACE MAT 52 EXTRACE MAT 55076 PARTIAL CONST	•	

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			INFORMATION	FULL VALUE	243685 155785	399470		243685	393685	243685 150000	393685			PUBLIC UTILITY 4-4-1 LAND 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5-5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
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CITY OF WATERBURY REAL	PROPERTY TON ASSRS NAP - LOT	181 EAST AURORA ST 160-707-4	CURRENT CHINER HAME OF BUSINESS	NAME 1 * AREV I LIMITED PARTNERSHIP PRECISION SPLITTING INC.	WAME 2 + ADDRESS + 0225 AURORA ST ADDRESS + WATERBURY ADDRESS - 21P + 06708	CHARE HISTORY	NAME SALE PRICE VALID DEED TYPE AREV I LIMITED PARTNERSHIP 0636 0486 00/00/0000				LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 8.65 3-1 42000.00 363300 254310	SITE DESIRABLEITY -	HEDIUM BACK- BACK- BUILDING P DATE

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	PROPERTY LOCATION	AS DESCRIPTION HEAVY MANUF, PROCESSI HEAVY MANUF, STORAGE LIGHT IND PROC, OFFIC	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT 3 1918 BUILT AS 1 HEAVY MANUFA USED AS 1 HEAVY MANUFA USED AS 2 HEAVY MANUFA USED AS 1 HEAVY MANUFA USED AS 2 HEAVY MANUFA USED AS 1 HEAVY MANUFA USED AS 1 HEAVY MANUFA ROOF MATERIAL 1 HOUST. FUNC OF MATERIAL 1 HOUST. FUNC OBS MULT 000 EXTMAL MAT 2 26 EXTRACE MAT 2 26 EXTRACE MAT 3 26 EXTRACE MAT 3 26 EXTRACE MAT 4 48807 PARTIAL CONST. NOTES					
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	٥.	ASSESSMENT	UNITS	1.00			1.00	1.00			PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS) INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
WBHDS1TE	80		CLASS	3-1	1		3-1	3-1	TOTAL		PROPERTY CLASSIFICATION C COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 3-6 LAND (APT BUILDINGS) 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
TRACT			YEAR	1994			1992	1989			COMME COMME 2-1 L 2-2 B 2-4 C 2-5 C 2-6 L 1NDUS 3-1 L 3-3 I
PROPERTY TION ASSRS MAP LOT ZONE CENSUS TRACT	EAST AURORA ST 160-707-4	CURRENT CAMER NAME OF BUSINESS	NAME 1 - AREV I LIMITED PARTNERSHIP BLDG #2	. 0225 AUROR . 4 WATERBURY . + 06708	UMNER HISION	00/00/00			LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	TOTAL DESIRABILITY -	BACK. BACK. BACK. BACK. BACK. BATER BUILDING PERMITS DATE VALUE DESCRIPTION

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KI KEAL FROFEKII	TNT	66 POOR 1.00		CH CARD	DIM 2 OTY CLSS COND)
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181 FA	 E89	SQ FT	ON DATA	0201 1925 HEAVY MANUFACTURING HEAVY MANUFACTURING AVERAGE AVERAGE FLAT BUILT UP 111 1.00 000 8RK MAS/PRE CAST CONC 134 24		•	
DPODERTY : OCATION	USED DESCRIPTION	HEAVY MANUF, STORAGE	BUILDING DESCRIPTION DATA	BUILDING/SECT - 0201 EFF YR BUILT - 1925 BUILT AS - 16AVY M. USED AS - 16AVY M. EXTERIOR COMD - 1111 GRADE MOD - 1111 GRADE MOD - 1100 SECTION PERIM - 1111 EXTRA BUILT - 134 EXTAR BUILT - 134			

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memosite	ROUDOUS	AS	CLASS	3-1	TOTAL		3-1	TOTAL	3-1	TOTAL	PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) 3-1 LAND	3-2 BUILDINGS 3-3 IMPROVEMENTS
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Tiran	PROPERTY LUIS AND AND AND AND AND AND AND AND AND AND	CURRENT OWNER	AREV I LIMITED PARTNERSHIP BLDG #3	0225 AUROR Waterbury 06708	OWNER HISTORY	NAME SALE PRICE VALID DEED TYP AREV I LIMITED PARTNERSHIP 0636 0486 00/00/0000			LAND DESCRIPTION DATA	LAND TYPE ACREAGE MEASURE 1 NEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	SITE NBHD TYPE NBHD TYPE LOCAL SEPER TRAFIC TRAFIC TRAFICAL TRAFICA	

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	181 EAST AURORA	UNIT NO VALUE TYPE UNIT UNIT CLASS	SQ FT AREA C	***************************************	0301 1918 MULTI USE-MULTI OCCU AVERAGE NORMAL FLAT BUILT UP 111 1.00 560 560 FES FES FES FES FES FES FES FES FES FE
	PROPERTY LOCATION	USED DESCRIPTION T	HEAVY MANUF,STORAGE S	BUILDING DESCRIPTION DATA	BUILDING/SECT- BUILT AS

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c		INFORMATION	FULL VALUE	158980 2328 244090	405398	158980	2328 234657	395965	158980 2328 234657	395965	161314 2328	398299			ES PUBLIC UTILITY 4 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS	
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TRACT			YEAR	1997		1996			1993		1989				PROPERTY CI COMMERCIAL 2-1 LAND(E) 2-2 BUILDII 2-3 APARTMI 2-4 CONDOMI 2-5 OUTBUII 2-6 LAND (I 3-1 LAND 3-3 IMPROVI	FET 7-7
TY TON ASSRS MAP - LOT	137 EAST AURORA ST 160-707-6	CURRENT OWNER NAME OF BUSINESS	NAME 1 - 137 EAST AURORA LLC	NAME 2 + ADDRESS + 109 NICHOLS DR ADDRESS + WATERBURY CT	ADDRESS *	NAME VOL PAGE DATE SALE PRICE VALID DEED TYP	137 EAST AURORA LLC 3184 337 01/27/1995 500000 Y W 137 EAST AURORA LLC 03184 00337 01/27/1995 N W SEETM MADOID TRINSTE 1317 0098 00/00/0000					LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	E ACREAGE 6.08 3-1 42000.00 255360	SITE BEEVATION - DESIRABILITY	BACK - HOCAL SEWER - YES LAMBSCAPING - DCAL WATER - PUBLIC DRIVEWAY DITLITIES - GAS/ELEC MAJOR USE - COMPARED - COMPARED - BUILDING PERMITS - DESCRIPTION CLASS - C.O.	

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9-20	INT FLOOR LIGHT FIN CONSTR PCT	CONC MOOD		IT DATA COND YR BLT USE CD	3 1975 3-3 3 1975 3-3 3 1977 3-2 3 1977 3-2	1983 TOTAL
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137 EAST AURORA ST	T NO. VALUE E UNIT UNIT CLASS	FT AREA C FT AREA C	+ +	DESCRIPTION	FENCE, CHN LK PAVNG, ASPHLT DOOR, OVERHD RES DOOR, OVERHD RES	DOOK, OVERH
PROPERTY LOCATION	USED USED UNIT AS DESCRIPTION TYPE	LIGHT IND PROCESSING SQ F LIGHT IND PROC,OFFIC SQ F	BUILDING DESCRIPTION DATA BUILDING/SECT** 0101 EFF YR BUILT 1978 USED AS LIGHT IND PROCESSING LIGHT IND PROCESSING EXTER OR COMD. AVERAGE FUNCT UTILITY** NORMAL ROOF TYPE TATE ROOF TYPE TO CRABE METAL SKABE MOD SECTION PERIM TO CREATE METAL SKABE BUILT OOO EXTWAL MAT SECTION PERIM TO CREATE METAL EXTWAL MAT SECTION PERIM TO CREATE MULT STATE EXTWAL MAT SECTION PERIM TO CREATE MULT STATE EXTRACE MAT SECTION PERIM TO CREATE MULT STATE EXTRACE MAT SECTION PERIM TO CREATE MULT STATE EXTRACE MAT SECTION PERIM TO CREATE MULT STATE EXTRACE MAT SECTION PERIM TO CREATE MULT STATE SECTION PERIM TO CREATE SECTION PERIM TO CREATE SECTION PERIM TO CRE		•	

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PROPERTY TON ASSRS MAP - LOT ZONE CENSUS TRACT EAST AURORA ST 160-707-61	8# #	NBHDSITE CARD 8000001	g	(stde
CURRENT OWNER NAME OF BUSINESS		ASSESSMENT INFORMATION	NFORMATION	
NAME 1 + STEIN HAROLD TRUSTEE	YEAR CLASS	SS UNITS	FULL VALUE	ASSESSED
NAME 2 * ADORESS * 839A HERITAGE VILLAGE ADORESS * SOUTHBURY CT ADDRESS *	1997 5-3	,	15320	10720
NAME VOL PAGE DATE SALE PRICE VALID DEED TYP	1996 5-3	2	15320	10725
STEIN HAROLD TRUSTEE 1317 98 04/07/1976 N W	TOTAL		15320	10725
	1993 5-3		15320	10720
	TOTAL		15320	10720
LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED				
PRIME SITE ACREAGE .59 5-3 42000.00 33600 23520				
TOTAL				
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mar. J	PROPERTY LUN ASSESS AND LOS CONTROL CO	CURRENT CANER NAME OF BUSINESS	MILLS INC	ശശശ	NAME VOI PAGE DATE SALE PRICE VALID DEED IYP	WATERBURY ROLLING MILLS INC 0197 0425 00/00/0000			LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 12.15 3-1 42000.00 510300 357210	TOTAL 10N - DESTRABILITY -	# LOCAL # HEAVY RACK- BUILDING P DATE

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CITY OF WATERBURY	ASSRS MAP + LOT	INTERIOR DESCRIPTION LOCATION HT FROM TO PSTY AREA	01 01 10 14 01 01 20 766 01 01 20 140 01 01 20 284	SKETCH	SEE SKEI	NEASURE DIM 1 C	3,7		SQUARE FE 120 SQUARE FE 168		
	EAST AURORA ST	VALUE YEAR UNIT CLASS FIN	AREA C 1968 AREA C 1900 AREA C 1900 AREA C 1998			DESCRIPTION		AH		CANPY, W/SLAB	
	PROPERTY LOCATION 240	USED UNIT NO. AS DESCRIPTION TYPE UNIT	HEAVY MANUF, OFFICE SQ FT HEAVY MANUF, PROCESSI SQ FT HEAVY MANUFACTURING SQ FT HEAVY MANUFACTURING SQ FT	BUILDING DESCRIPTION DATA	### 120562 ###################################						-
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boonsorv		- 1	- WATERBURY ROLLING		NAME	WATERBURY ROLLING MILLS INC		LAND TYPE ACREAGE NEASURE 1	PRIME SITE ACREAGE	SITÉ WBHD TYPE + INDUSTRIAL	ROAD LOCAL SEWER TRAFFIC HEAVY WATER BLDG SET BACK- WATER UTHIJ VIEW DOMPAR NUMBER DATE VALU

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SIDE 2	LIGHT HEAT A/C SPRINK PCT TYPE PCT TYPE PCT TYPE PCT	HOT HOT HOT 100 UNIT 100		3-2 2979 30 894 625 3-3 100 894 625	2065 14458
EAST AURORA ST ASSRS MAP - LOT 160-783-1	VALUE YEAR LOCATION HT INTELLOR LINITURE CONTRACTOR TO PSITY AREA CONTRACTOR OF THE	AREA C 1968 01 01 10 1400 AVERA .50 100 CONC AREA C 1900 01 01 20 76691 AVERA .50 CONC AREA C 1900 01 01 20 14000 AVERA .50 CONC AREA C 1998 01 01 20 28471 AVERA 1.00 CONC SKETCH	SEE SKETCH CARD	LOAD DOCK, STL/C SQUARE FE 432 C 3 1952 SHED, CONC BLK SQUARE FE 440 . C 3 1920	TOTAL
PROPERTY 1 OCATION 240	UNIT	HEAVY MANUF, OFFICE SQ FT HEAVY MANUF, PROCESSI SQ FT HEAVY MANUFACTURING SQ FT HEAVY MANUFACTURING SQ FT BUILDING DESCRIPTION DATA	BUILDING/SECT** EFF YR BUILT* BUILT AS		

	TRACT NBHDSITE CARD	8000002	ASSESSMENT INFORMATION	YEAR CLASS UNITS FULL VALUE ASSESSED	1999 3-1 1.00 246510 172560 3-2 1.00 722600 505820	TOTAL 969110 678380	1998 3-1 1.00 246510 172560 3-2 1.00 479170 335420	T0TAL 725680 507980	1989 3-1 1.00 215000 150500 3-2 1.00 386600 270620	TOTAL 601600 421120			PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 4-1 LAND 2-2 BUILDINGS 4-2 BUILDINGS 2-3 APARTMENTS 4-3 OUTBUILDINGS 2-4 CONDOMINIUMS VACANT LAND 5- 2-5 OUTBUILDINGS) 5-1 RESIDENTIAL 3-1 LAND 5-2 COMMERCIAL 1NDUSTRIAL 3-5-2 COMMERCIAL 3-1 LAND 5-4 WETLANDS 3-3 IMPROVEMENTS 5-5 OUTBUILDINGS 3-3 IMPROVEMENTS
CITY OF WATERBURY R	PROPERTY TION ASSRS HAP - LOT CENSUS TRACT	240 EAST AURORA ST 160-783-1	CURRENT DAMER NAME OF BUSINESS	NAME 1 - WATERBURY ROLLING MILLS INC		ZIP * 06708 OWNER HISTORY	NAME SALE PRICE VALID DEED TYP WATERBURY ROLLING MILLS INC 0197 0425 00/00/0000				LAND TYPE ACREAGE MEASURE I MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	TOTAL FELEYATION * DESIRABILITY -	- LOCAL - HEAVY BACK- BUILDING P DATE

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SIDE 2	SPRTHK TYPE PCT		D ASSESSED
	A/C PCT TYPE	NON WET	PCT GD COST MOD RCNLD
	HEAT TYPE PCT		BCR
	T FLOOR LIGHT M CONSTR PCT		A YR BLT USE CO
160-783-1	INT FUNC INT	AVERA 1.00 100 AVERA 1.00 100	IMPROVEMENT DATA
ASSRS MAP + LOT	REA	1681 3434	SEE SKETCH CARD
	YEAR LOCATION HT FROM TO PSTY A		WEASURE
EAST AURORA ST	NG. VALUE UNIT UNIT CLASS	AREA C AREA C	NC DESCRIPTION
NA 240	UNIT NO TYPE UN	DIN SQ FT DIN SQ FT	1946 LOW RISE OFF BUILDIN AVERAGE NORMAL GABLE SHINGLES 111 1.00 000 BRK MAS/PRE CAST CONC 176 20 5115
PROPERTY LOCATION	USED DESCRIPTION	LOW RISE OFF BUILDIN LOW RISE OFF BUILDIN	BUILDING/SECT- 020 EFF YR BUILT 194, BUILT AS LOW EXTERIOR COND AVEI EXTERIOR COND AVEI EXTERIOR COND AVEI EXACE MATERIAL SHII GRADE MOOF TYPE GABI GRADE MOOF TYPE AVEI EXTERIOR PERIM 111 GRADE MAT EXTERIOR MAT 20 EXTRACE MA

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BIDE	1		ASSESSED	172560 505820	678380	172560 335420	507980	150500 270620	421120		- 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4
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		SESSMENT	UNITS	1.00		1.00		1.00			APT.BLDS)
NBHDSITE	8000	Ą	CLASS	3-2	TOTAL	3-1	TOTAL	3-1	TOTAL		PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND(EXCEPT APT.BLDS) 2-2 BUILDINGS 2-3 APARTMENTS 2-4 CONDOMINIUMS 2-5 OUTBUILDINGS 2-6 LAND (APT BUILDINGS) 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEMENTS
RACT			YEAR	1999		1998		1989			PROPERTY COMMERCIA 2-1 LAND(2-2 BUILD 2-3 APART 2-4 CONDO 2-5 OUTBU 2-6 LAND INDUSTRIA 3-1 LAND 3-2 BUILD 3-2 BUILD 3-3 IMPRO
PROPERTY TION ASSRS NAP - LOT CENSUS TRACT	EAST AURORA ST 160-783-1	CURRENT CANER NAME OF BUSINESS	NAME 1 * WATERBURY ROLLING MILLS INC	NAME 2 - ADDRESS - 0240 EAST AURORA ST ADDRESS - WATERBURY CT ADDRESS - 21F - 06708	OWNER HISTORY	NAME SALE PRICE VALID DEED TYP WATERBURY ROLLING MILLS INC 0197 0425 00/00/0000				A SURE 2 USE CODE U	BACK-HEAVY WATER PUBLIC DRIVEWAY DITITIES GAS/ELEC HAJOR USE COMPARED PROPERTY CLASS BUILDING PERMITS DATE VALUE DESCRIPTION C.O

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	FLOOR LIGHT HEAT CONSTR PCT TYPE P	CONC NONE)			YR BLT USE CD RCM	1950 3-2 4	AL
160-783-1	TNI	1.00 100 0						 +	IMPROVEMENT DATA OTY CLSS COND YR B	8	TOTAL
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ASSRS NAP - LOT	LOCA FROM	2 01 01 10	SK				<u>.</u>	-	NEASURE DIN 1	SQUARE_FE	
EAST AURORA ST		AREA C 1972 AREA C 1972							DESCRIPTION	DOOR, OVERHD COM	
240	UNIT NO.	RA SQ FT	ION DATA 1 1 1 I USE-MULTI OCCU	MULTI USE-MULTI OCCU AVERAGE NORMAL FLAT BUILT UP 111 1.00	DENICK/FRAME 274 10	9					
PROPERTY LOCATION	USED AS DESCRIPTION	MULT USE & OCC, STORA MULT USE & OCC, OFFIC	BUILDING DESCRIPTION DATA BUILDING/SECT 0301 EFF YR BUILT - 1954 BUILT AS MULTI USE-M		EXTUAL MAT - BRIC EXT LINFT - 274 EXT HT - 10 EXTFACE MAT - 10 FCWALL LINFT -	SECT TOT AREA - 4186 PARTIAL CONST. NOTES			·		

	CARD			246510 172560 722600 505820	969110 678380	246510 172560 479170 335420	725680 507980	215000 150500 386600 270620	071174				PUBLIC UTILITY 4- 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS	VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
		8000004	SSE	1.00		1.00		1.00		`	 		PROPERTY CLASSIFICATION CODES COMMERCIAL 2-2-2 BUILDINGS 2-2 APAREMENTS	CONDOMINIUMS OUTBUILDINGS LAND (APT BUILDINGS) STRIAL 3- LAND BUILDINGS IMPROVEMENTS
GIGO			-	1999 3-1 3-2	TOTAL	1998 3-1	TOTAL	1989 3-1	IOIAL				PROPERTY CLASSIF COMMERCIAL 2- 2-1 LAND(EXCEPT 2-2 BUILDINGS 2-3 APARTMENTS	
T CITI OF HAIBADOKI NEAD	TY TION ASSRS MAP = LOT	180-783-1	CURRENT CAMER	NAME T WALERBURY RULLING MILLS INC. NAME 2 ADDRESS 0240 EAST AURORA ST ADDRESS WATERBURY CT ADDRESS MATERBURY CT ADDRESS MATERBURY CT	1	NAME SALE PRICE VALID DEED TYP WATERBURY ROLLING MILLS INC 0197 0425 00/00/0000				LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	T01AL 172560	TYPE + INDUSTRIAL ELEYATION + DESIRABILITY +	\$20000	NUMBER DATE VALUE DESCRIPTION C.O. DATE COMP DATE

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SIDE 2	SPRIMK TYPE PCT	NON	RCMLD ASSESSED	_
	TYPE PCT	NON	PCT GD CDST MOD	
.	R LIGHT HEAT	VC HOT	T. USE CD RCN	
83-1	FUNC INT FLOOR UTIL FIN CONSTR	.75 CONC	IMPROVEMENT DATA OUTY CLSS COMD YR BLT	
160-7	INT REA COND	1920 FAIR	SEE SKETCH CARD IMPROV	→
ASSRS NAP + LOT	INTERIOR DESCRIPTION LOCATION HT FROM TO PSTY AN	01 01 12	NEASURE DIM 1	
EAST AURORA ST	VALUE YEAR UNIT CLASS FIN	AREA C 1907	DESCRIPTION	
240 E	, L 285 138		1924 HEAVY MANUFACTURING HEAVY MANUFACTURING AVERAGE FAIR FLAT BUILT UP 111 1.00 000 BRK MAS/PRE CAST CONC 208 12 1920	
PROPERTY LOCATION	USED AS DESCRIPTION	HEAVY MANUF,STORAGE	BULLDING/SECT 0401 BULLI AS HEAVY MAN USED AS HEAVY MAN EXTERIOR COND AVERGE FUNCT UTILITY: FAIR ROOF TYPE FLAT ROOF TYPE FLAT ROOF TYPE FLAT ROOF TYPE FLAT ROOF TYPE FLAT ROOF TYPE FLAT SECTION PERIM: 110 EXTLAC OBS MULT 000 EXTLAC MAT BRK MAS/I EXTLAC OBS MULT 12 EXTLAC MAT BRK MAS/I EXTLAC OBS MULT 12 EXTLAC MAT BRK MAS/I EXTLAC LINFT 208 EXTLAC MAT BRK MAS/I EXTLAC LINFT 208 EXTLAC MAT BRK MAS/I EXTLAC LINFT 208 EXTLAC MAT BRK MAS/I EXTLAC LINFT 208 FCJALL LINFT 208 PARTIAL CONST.	پ

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	•	ATION	ALUE	100000 850000	950000		1260000	1360000	100000 1260000	1360000			PUBLIC UTILITY 4- 4-1 LAND 4-2 BUILDINGS 4-3 OUTBUILDINGS VACANT LAND 5- 5-1 RESIDENTIAL 5-2 COMMERCIAL 5-3 INDUSTRIAL 5-4 WETLANDS 5-5 OUTBUILDINGS
CARD]	ASSESSMENT INFORMATION		1.00			1.00		1.00				ODES
WRHD\$17E	8000001	AS	CLASS	3-1	TOTAL		3-1	TOTAL	3-1 3-2	TOTAL			MERCIAL 2- LAND(EXCEPT APT.BLDS) BUILDINGS APARTMENTS CONDOMINIUMS OUTBUILDINGS LAND (APT BUILDINGS) LAND BUILDINGS IMPROVEMENTS
TACT LAST			YEAR	1994			1992		1989				PROPERTY CLAS COMMERCIAL 2- 2-1 LAND(EXCE 2-2 BUILDINGS 2-3 APARTHENT 2-4 CONDOMINI 2-5 OUTBUILDI 2-6 LAND (APT INDUSTRIAL 3- 3-1 LAND 3-2 BUILDINGS 3-3 IMPROVEME
Description Assess MAD - INT - 20MF CFMSIS TRACE	EAST AUDDRA ST 160-783-7	CURRENT CANER	ETHERINGTON GEOFFREY 11	NAME 2 ADDRESS PO BOX 1248 ADDRESS MADISON CT ADDRESS ADDRESS 21P .		NAME VCI. PAGE DATE SALE PRICE VALID DEED 17P ETHERINGTON GEOFFREY II 1456 284 07/25/1980 585000 N W CONNECTICUT DEVELOPMENT C 1112 270 01/01/1974 N 0				LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 3.24 3-1 42000.00 136080 95256	TOTAL IE ELEVATION ** DESIRABILITY **	BACK- HOTOL SEWER YES LAMBSCAPING HATER PUBLIC DRIVENAY DRILITIES GAS/ELEC MAJOR USE COMPARED PUBLIC PROPERTY CLASS BUILDING PERMITS DESCRIPTION C.O.O.

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	UEAT	TYPE RATE AVE. HOT CEN UNIT NON UNIT NON HOT CEN		RCN PET GD COST MOD			13818 30 8274 25 403 35	
PROPERTY DATA	iut Etonb	100 CONC 50 CONC 100 CONC 100 CONC 100 CONC 50 CONC 100 CONC		ENT DATA S COMD YR BLT USE CD	3 1987 3 1970	3 1970 3 1970	2 1950 3-2 2 1950 3-2 3 1950 3-2 2 1950 3-3	TOTAL
ATERBURY REAL PR	T 160-7	AREA COND UTIL 11910 AVERA 1.00 34179 AVERA 1.00 28864 AVERA 1.00 11610 AVERA 1.00 3200 AVERA 1.00	SEE SKETCH CARD	IMPROVEMENT DIM 1 DIM 2 OTY CLSS			1200 C 1200 C 96 C 2460 C	
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	172 E	TYPE UNIT VALUE CLASS SQ FT AREA C SQ FT AREA C SQ FT AREA C SQ FT AREA C SQ FT AREA C SQ FT AREA C	IPTION DATA 0101 1952 LIGHT MANUFACTURING AVERAGE NORMAL INDUST. ROLL COMP. 111 1.00 BRK MAS/PRE CAST CONC 1625 18 4000/MTL 4005/MTL 4005/MTL 4005/MTL 55 89763	DESCRIPTION	PAVNG, ASPHLT DOOR, OVERHD	DOOR, OVE	CANPY, W, LOAD DOC DOOR, OVE SHED, COI	
	DERTY LOCATION	USED AS DESCRIPTION LIGHT MANUF, OFFICE LIGHT MANUF, STORAGE LIGHT MANUF, PROCESSI LIGHT MANUF, STORAGE LIGHT MANUF, STORAGE	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT - 1952 BUILT AS - 11GHT MANUF. USED AS - 11GHT MANUF. EXTERIOR COMB. AVERGE FUNCT UTILITY NORMAL ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. ROOF TIPE 1 NOUNT. FUNC OBS MULT 1 1625 EXT LINFT 1 1625 EXT LINFT 1 1625 EXT LINFT 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH 1 1625 FATH CONST.		,			

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TION AS	AURORA ST	CURRENT OWNER	ETHERINGTON GEOFFREY II PO BOX 1248 MADISON CT 06443 OMNER HISTORY	WOLETHERINGTON GEOFFREY II 1456 CONNECTICUT DEVELOPMENT C 1112	LAND DESCRIPTION DATA ACREAGE MEASURE 1 MEAS ACREAGE 3.24	SITE	MEDIUM WATER WATER UTILITIES COMPARED DATE VALUE
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TRACT KBHDS1TE CARD SIDE	8000002	ASSESSMENT INFORMATION	YEAR CLASS UNITS FULL VALUE ASSESSED	2000 2-1 1.00 45000 31500 2-5 1.00 1785 1250 2-2 1.00 51514 36060 2-2 1.00 116570 81600	214869	1999 2-1 1.00 45000 31500 2-5 1.00 1785 1250 2-2 1.00 51514 36060 TOTAL 98299 68810	1.00 45000 1.00 1785 1.00 51514	TOTAL 98299 68810		PROPERTY CLASSIFICATION CODES COMMERCIAL 2- 2-1 LAND (EXCEPT APT.BLDS) 4-1 LAND 2-2 BUILDINGS 2-3 APARTMENTS 4-2 BUILDINGS 2-3 APARTMENTS 4-3 OUTBUILDINGS 2-4 CONDOMINIUMS 4-3 OUTBUILDINGS 2-5 OUTBUILDINGS 4-3 OUTBUILDINGS 2-5 COMPRECIAL 1NDUSTRIAL 3- 3-1 LAND 5-2 COMPRECIAL 3-1 LAND 5-4 WETLANDS 3-2 BUILDINGS 3-3 IMPROVEMENTS 5-5 OUTBUILDINGS
PROPERTY TION ASSRS MAP - LOT ZONE CENSUS TRACT	EAST AURORA ST 161-707-1	CURRENT CANER CHANESS	NAME 1 ** VBL REALTY LLC		ZIP *: US/US OWNER HISTORY	NAME VOIL PAGE DATE SALE PRICE VALID DEED TYP VBL REALTY LLC 3554 81 11/21/1997 325000 Y W CARPENTIER DENNIS & JUANI 3221 328 06/01/1995 N Q GRANT EDWARD C 2271 311 04/21/1988 N P GRANT EDWARD C 8. HELEN 979 40 01/01/1971 N W			LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 1 MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED TOTAL 31500 SITE SITE BESTRABILITY - TYPICAL	TC MEDIUM WATER TOWN TES LANDSCAPING - SET BACK DATE GAS/ELEC MAJOR USE COMPARED PROPERTY CLASS BUILDING PERMITS MBER DATE VALUE DESCRIPTION C.O.

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PROPERTY TION ASSRS MAP - LOT CENSUS	EAST AURORA ST 161-707-1			ESS ESS ESS	# ## # Owner History	NAME VOIL PAGE DATE SALE PRICE VALID DEED TYP VBL REALTY LLC 3554 81 11/21/1997 325000 Y W CARPENTIER DENNIS & JUANI 3221 328 06/01/1995 N Q CARPENTIER DENNIS & JUANI 2771 311 0.04/21/1988 N Q	N 01/01/1971			LAND DESCRIPTION DATA LAND TYPE ACREAGE MEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	PRIME SITE ACREAGE 1.50 2-1 42000.00 63000 44100	BACK-BACK-BACK-BACK-BACK-BACK-BACK-BACK-

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te t	USED DESCRIPTION TYPE UNIT	STRGE, WARE, DIST FACI SQ FT	BUILDING DESCRIPTION DATA BUILDING/SECT 0101 EFF YR BUILT 2001 EXTERIOR COND STRGE, WARE, DIST FACI EXTERIOR COND AVERAGE ROOF MATERIAL GABLE ROOF MATERIAL GABLE ROOF MATERIAL METAL EXTERIOR PERIM 1.10 EXTUAL MAT 2001 EXTUAL MAT 2001 EXTUAL MAT 16 EXTUAL MAT	•	

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	173 EAST AURORA ST 161-707-1	CURRENT DUNIER NAME OF BUSINESS	NAME 1 * VBL REALTY LLC AUTO BODY SHOP & OFFICE	ra en	21P + 06708	OWNER HISTORY	NAME VOR PAGE DATE SALE PRICE VALID DEED 17P VBL REALTY LLC 3554 81 11/21/1997 325000 Y W CARPENTIER DENNIS & JUANI 3221 328 06/01/1995 N Q	311 04/21/1988 N 40 01/01/1971 N			LAND TYPE ACREAGE MEASURE 1 WEASURE 2 USE CODE UNIT PRICE FULL VALUE ASSESSED	SITE DESIRABLEITY	BACK- MEDIUM WATER PUBLIC DRIVENAT DRILLITIES GAS/ELEC WAJOR USE COMPARED PROPERTY CLASS BUILDING PERMITS DATE VALUE DESCRIPTION C.O.

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PROPERTY LOCATION	USED DESCRIPTION	SM IND-AUTO BDY,STOR SM IND-AUTO BODY,GAR	BUILDING DESCRIPTION DATA	BUILDING/SECT- EFF YR BUILT BUILT AS USED AS EXTERIOR COND- FUNCT UTILITY ROOF TYPE ROOF MATERIAL GRADE MOD	SELLION PER INT YEAR BUILT FUNC OBS MULT - CC EXTLINFT - 3C EXT INFT - 3C EXT AT - 16 EXTRUE MAT - 16 EXTRUE MAT - 16 EXTRUE MAT - 16 SECT TOT AREA - 5C PARTIAL CONST-				